




ENTERTAINMENT



TEMPORARY POWER



INDUSTRIAL

Full Line Product Catalog

Distributor



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MARINCO
power products



Dear Partners & Customers,

It gives us great pleasure to introduce the new Marinco Power Products Catalog. We have taken great care to provide you with a reference tool that organizes products clearly to make selection and comparison easier.

Marinco Power Products History

Marinco purchased Advanced Devices to complement their industrial connector product offering. Following the acquisition, Marinco and Advanced Devices were united to create Marinco Power Products to support the growing needs of the industrial and entertainment power connectivity markets.

Our breadth of products allows us to be the most flexible power connectivity provider in the marketplace. We are focused on providing our customers with a broad selection of products, enhanced customer service, and continued product innovation to better serve their needs.

We invite you to reach out and work with us to develop new products or market opportunities.

We welcome your feedback on the new Marinco Power Products Catalog, and we look forward to serving you in the years ahead.

Sincerely,

Your Marinco Power Products Team

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The Marenco Difference

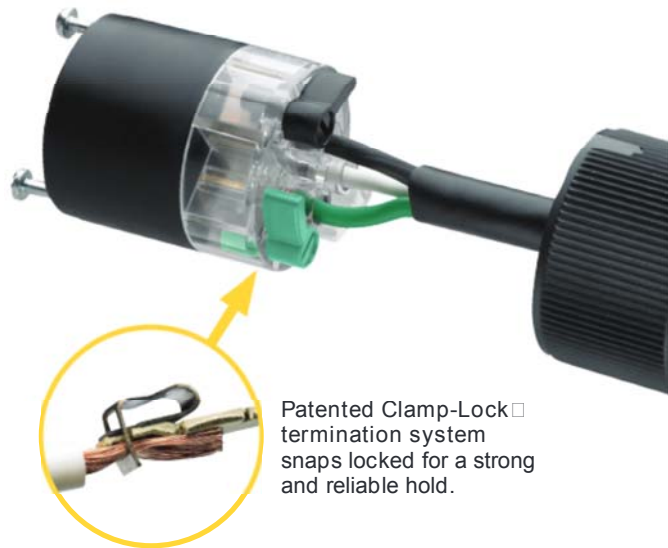
Marenco offers a full line of industry specific products with the Marenco tradition of innovative design and customer response. The Marenco products include 15, 20, 30 and 50 amp devices, both straight blade and locking. Many features and benefits are universal to all Marenco brand products:

- U Bevel housing prevents snagging nearby equipment
- U Dust seals keep foreign materials from terminals
- U Internal cord clamp limits wear and prevents cord from loosening
- U A variety of cord clamp inserts to grip most cord sizes securely
- U Redundant color-coded terminal markings add to wiring ease and safety
- U Terminal screws are installed in open position to speed assembly
- U Wire entry holes are located close together to ease insertion of wires
- U Spacious housings for faster assembly, easy clamping to cable and convenient wire stripping
- U Speed style screws for faster assembly



Clamp-Lock Termination System

The Clamp-Lock termination system provides a maintenance-free connection. This revolutionary system actually gets stronger as the cable is pulled, which provides peace of mind knowing this durable trouble-free solution can handle heat, shock and vibration. Most important, Clamp-Lock enables wiring termination up to 50% faster than conventional screw termination products resulting in a more cost-effective process.



Patented Clamp-Lock termination system snaps locked for a strong and reliable hold.

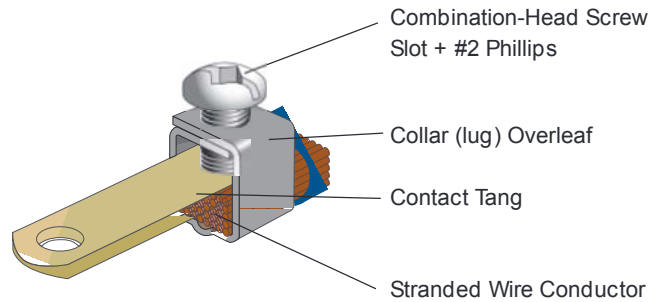
How Does it Work?

Use the built-in gauge to measure how much wire casing should be stripped. Then, to connect the three wires, simply open the color-coded green, white and black cam levers, insert the wires and close the cam levers—no tools are needed. The compression receptor bites into the wire and doesn't let go. Slide the housing over the connection and lock it positively in place with two captive screws.



Exclusive Perma-Lock Terminal Tightening

As the screw goes down, the collar locks up: As the terminal screw tightens down on the contact tang, it compresses the wire underneath the tang, causing the screw to exert an upwards lift on the collar overleaf. This lifting action locks up the screw's threads. Heat cycling and vibration cannot loosen the screw, and stress relief is virtually eliminated.



OEM Packaging Option

Devices are available bulk packed with assembly screws backed out and without individual packaging. Add suffix **□OEM□** to the item number.

Customization

We would be glad to discuss any product customization, custom color, custom logos, printing or engraving. Contact your sales representative for more information.

Selection Guide □

These blanks were left in the selection guide to notate our ability to provide these configurations if you need one of these unlisted products. Please call customer service or contact your sales rep for more information.

15 & 20 Amp Straight Blade & 15 Amp Locking Devices



Plugs & Connectors

- UAdjustable cord clamp provides superior strain relief
- UClose-in wire entrance holes and generous wiring space make it easy to wire
- UTwo assembly screws make for fast assembly
- UTerminals are open, ready to wire for quickest assembly
- UCord clamp insert allows use of greatest range of cord sizes
- UBeveled housing so device won't get caught on stairs, equipment, etc
- UDust seal keeps contaminants out of wiring chamber
- UAll-nylon construction for durability

Receptacles

- UHeavy-duty, extremely durable nylon face
- UOptional back or side wiring for on-the-job versatility and easy installation
- ULarge #8 captive screws assure easy, efficient installation
- UCaptive self-grounding clip eliminates the need for a bonding jumper [NEC Section 250-146(B)]
- UTriple-wipe copper alloy power contacts assure long-life contact pressure

Flanged Inlets & Outlets

- UPerma-Lock wire terminals for secure easy to wire connections
- UFlanged housing allows mounting in a panel without access from the rear
- UAll-nylon construction for durability

Corrosion-Resistant Devices



Plugs & Connectors

- UIndependent lab certified corrosion-resistant devices in a 240-hour 5% salt-spray test in accordance with ASTM B117
- UCorrosion resistant, marine grade construction with 5 Year Warranty.
- UNickel plated contacts
- UThumbprint locator on cover makes it easy to align the ground blade for easier hook-up
- UAccepts any 10/3 S-type (STW, STOW) cable up to 3/4" in diameter
- UClear terminal cover allows for easy inspection of wiring connection
- UPlug and Connector accepts #10 through #16 gauge wires
- UExclusive cover provides superior waterproof seal
- UStainless Steel Fasteners for corrosion resistance
- UPowerful strain relief with stainless screws
- UExclusive Marinco cover provides superior waterproof seal
- UContoured weatherproof cover allows better grip





Hospital-Grade Devices

These "green dot" devices have been rigorously tested for grounding reliability, assembly integrity, strength and durability.

Includes 15A and 20A straight blade connectors, plugs, and single and duplex receptacles.

Available in clear or black housing

Meets or Exceeds Hospital Grade UL Tests

All devices conform to UL Standards for hospital equipment #498 and #544, including:

- U Abrupt plug removal (parallel to wall) test
- U Assembly security test
- U Ground pin retention tests
- U Mold stress relief test
- U Fault current tests
- U Crush test
- U Terminal strength test
- U Cord grip strain relief tests
- U Face impact test
- U Static cord pull test
- U Ground contact temperature test
- U Rotary cord pull test
- U Ground resistance test



Connectors light when a circuit is energized

Users of ConnectGlow devices know immediately if a circuit is energized because the neon bulb is energized, rather than having to perform time-consuming circuit testing. You can easily see the circuit status and determine whether there is a problem with the circuit or with the apparatus that is being connected. This is particularly helpful in applications where it is difficult to get to the connection point, such as drop cords or extension cords, or where users might not be proficient in circuit testing.

Another function is for monitoring connection status. With ConnectGlow devices, you can visually monitor a connection to assure it is maintained.

Exclusive Maringo Mag-Vu window makes visual verification of condition of terminal connections fast and easy.

Features

- U 15-, 20- and 30-amp 3-wire plugs and connectors
- U Bright Neon bulb with full 360° visibility
- U Mag-Vu window magnifies bulb and terminal for easy inspection
- U 5-year limited warranty

Applications

- U Power-driven hand tools
- U Electrical industrial equipment
- U Manufacturing plants
- U Broadcast studio equipment
- U Staging & entertainment equipment
- U Fire-protection equipment
- U Hospital/healthcare equipment
- U Temporary taps at construction sites



Isolated Ground Devices for Noise Sensitive Applications

All Maringo IG devices are orange, with an orange triangle-indicating isolated ground.

Equipment requiring an isolated ground should use an isolated ground plug (orange housing) to show that the equipment should be connected to an isolated ground receptacle.











Conventional receptacles have grounding contacts that are connected to the box, fittings, conduit and all other building ground system components, which can act as a large antenna for EMI and RFI.

The ground terminals on Maringo IG-receptacles are designed to directly connect only to the service entrance grounding system, per NEC Article 250.146(D).









Configurations







Straight Blade

| Amps | Poles/ Wires | Voltage | NEMA Config. | | Body Color | Housing Color | Connector | Plug | Duplex Receptacle |
|----------|-----------------|---------|---|---|---------------|------------------|-----------|--------|----------------------|
| Standard | | | | | | | | | |
| 15 | 2P 3W | 125 |  |  | WT | BK | 5269 | 5266 | 5252 |
| 15 | 2P 3W | 125 |  |  | BK | BK | 5269BL | 5266BL | □ |
| 15 | 2P 3W | 250 |  |  | WT | BK | 5669 | 5666 | □ |
| 20 | 2P 3W | 125 |  |  | WT | BK | 5369 | 5366 | 5352 |
| 20 | 2P 3W | 250 |  |  | WT | BK | 5469 | 5466 | 5462 |



| Clamp-Lock □ | | | | | | | | | |
|--------------|-------|-----|---|---|----|----|----------|----------|---|
| 15 | 2P 3W | 125 |  |  | WT | BK | CL5269 | CL5266 | □ |
| 15 | 2P 3W | 125 |  |  | BK | BK | CL5269BL | CL5266BL | □ |
| 15 | 2P 3W | 250 |  |  | WT | BK | CL5669 | CL5666 | □ |
| 20 | 2P 3W | 125 |  |  | WT | BK | CL5369 | CL5366 | □ |



| Hospital Grade | | | | | | | | | |
|----------------|-------|-----|---|---|----|----|-------|-------|---|
| 15 | 2P 3W | 125 |  |  | WT | BK | 8219 | 8215 | □ |
| 15 | 2P 3W | 125 |  |  | WT | TP | 8219T | 8215T | □ |

WT=white BK=black TP=transparent YL=yellow OR=orange

more straight blade devices on next page...

Wiring Devices: 15 & 20 Amp Straight Blade

Configurations

Straight Blade



| Amps | Poles/ Wires | Voltage | NEMA Config. | Body Color | Housing Color | Connector | Plug | Duplex Receptacle |
|--|-----------------|---------|-----------------|---------------|------------------|-----------|---------|--------------------------|
| Hospital Grade Clamp-Lock <input type="checkbox"/> | | | | | | | | |
| 15 | 2P 3W | 125 | 5-15R | WT | BK | CL8219 | CL8215 | <input type="checkbox"/> |
| 15 | 2P 3W | 125 | 5-20R | WT | TP | CL8219T | CL8215T | <input type="checkbox"/> |



| Corrosion Resistant | | | | | | | | |
|---------------------|-------|-----|-------|----|----|--------|--------------------------|--------------------------|
| 15 | 2P 3W | 125 | 5-15R | WT | YL | 5269CR | 5266CRS | 5262CRR |
| 20 | 2P 3W | 125 | 5-15R | WT | YL | 5369CR | <input type="checkbox"/> | <input type="checkbox"/> |



| Connect Glow | | | | | | | | |
|--------------|-------|-----|-------|----|----|--------------------------|--------------------------|--|
| 15 | 2P 3W | 125 | 5-15R | WT | TP | 5269L | 5266L | |
| 15 | 2P 3W | 125 | 5-15R | WT | TP | 8219TL Hospital Grade | 8215TL Hospital Grade | |

WT=white BK=black TP=transparent YL=yellow OR=orange

OEM Available: Add suffix OEM to the item number for bulk packaging. Quantities vary. See your sales rep for quantity details.

Configurations



Inlets & Outlets

| Amps | Poles/Wires | Voltage | NEMA Config. | Body Color | Housing Color | Flanged Inlet | Flanged Outlet | Dust Resistant Inlet | Dust Resistant Outlet |
|------|-------------|---------|--------------|------------|---------------|---------------|----------------|----------------------|-----------------------|
| 15 | 2P 3W | 125 | 5-15R 5-15P | WT | BK | 5278 | 5279 | 5278DRI | 5279DRO |
| 15 | 2P 3W | 125 | 5-15R 5-15P | BK | BK | 5278BL | 5279BL | 150BBI | □ |
| 15 | 2P 3W | 250 | 6-15R 6-15P | WT | BK | 5678 | 5679 | 5678DRI | □ |
| 20 | 2P 3W | 125 | 5-20R 5-20P | WT | BK | 5378 | 5379 | 200BBIW | 5379DRO |
| 20 | 2P 3W | 250 | 6-20R 6-20P | WT | BK | 5478 | 5479 | □ | □ |

WT=white BK=black TP=transparent YL=yellow OR=orange

Right Angle Devices

| Amps | Poles/Wires | Voltage | NEMA Config. | Plug |
|-----------------------|-------------|---------|--------------|---------|
| 15 | 2P 3W | 125 | 5-15P | 5266RA |
| Hospital Grade | | | | |
| 15 | 2P 3W | 125 | 5-15P | 8215TRA |



Right-Angle Adapter with Cord Grip

Available in black

Item # 15RA

Fits 15 and 20 amp straight blade devices.

Compatible with the following devices:

| Plug | | | |
|------|------|------|------|
| 5266 | 4720 | 5366 | 4770 |
| 5666 | 4570 | 5466 | |



Item # 45WRA.OEM

Fits 20 and 30 amp 4 wire and 5 wire locking devices.

Accommodates .456" to 1.150" cords.

OEM Available: Add suffix **□OEM□** to the item number for bulk packaging. Quantities vary. See your sales rep for quantity details.

Wiring Devices: 15 Amp Locking

Configurations



Locking

| Amps | Poles/ Wires | Voltage | NEMA Config. | Body Color | Housing Color | Connector | Plug | Single Receptacle | Duplex Receptacle |
|-----------------|-----------------|---------|-------------------|---------------|------------------|-----------|--------|----------------------|----------------------|
| Standard | | | | | | | | | |
| 15 | 2P 3W | 125 | L5-15R L5-15P | WT | BK | 4729 | 4720 | 4710 | 4700 |
| 15 | 2P 3W | 125 | L5-15R L5-15P | BK | BK | 4729BL | 4720BL | □ | □ |
| 15 | 2P 3W | 250 | L6-15R L6-15P | WT | BK | 4579 | 4570 | 4560 | 4550 |
| 15 | 2P 3W | 277 | L7-15R L7-15P | WT | BK | 4779 | 4770 | 4760 | □ |



| Corrosion Resistant | | | | | | | | | |
|----------------------------|-------|-----|-------------------|----|----|--------|--------|---|--------|
| 15 | 2P 3W | 125 | L5-15R L5-15P | WT | BK | 4731CR | 4721CR | □ | 4700CR |



| Connect Glow | | | | | | | | | |
|---------------------|-------|-----|-------------------|----|----|-------|-------|---|---|
| 15 | 2P 3W | 125 | L5-15R L5-15P | WT | BK | 4729L | 4720L | □ | □ |

Inlets & Outlets



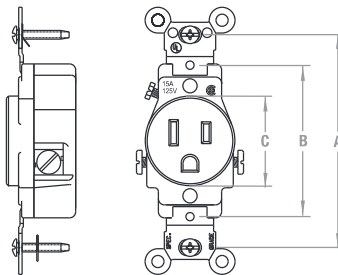
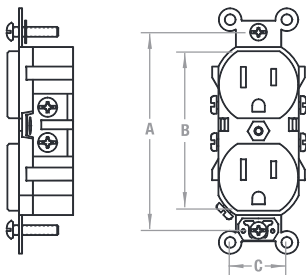
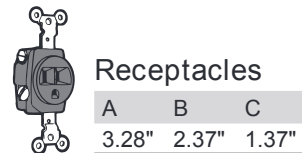
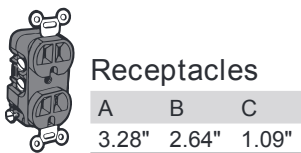
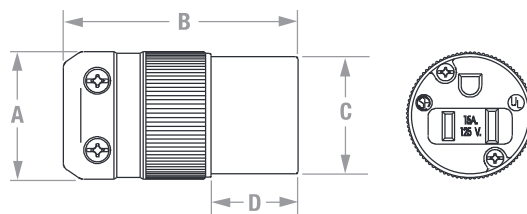
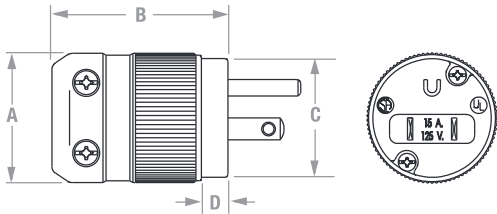
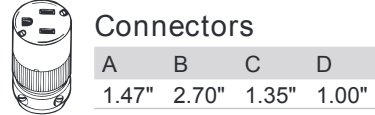
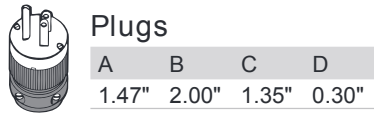
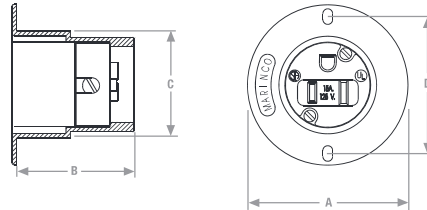
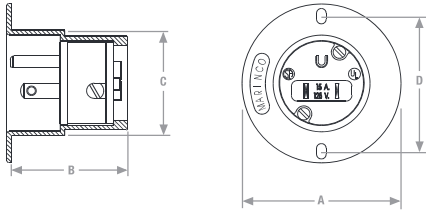
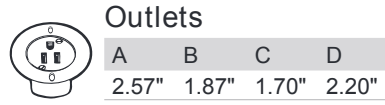
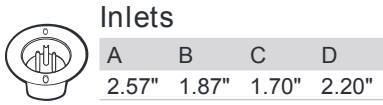
| Amps | Poles/ Wires | Voltage | NEMA Config. | Body Color | Housing Color | Flanged Inlet | Flanged Outlet |
|------|-----------------|---------|-------------------|---------------|------------------|------------------|-------------------|
| 15 | 2P 3W | 125 | L5-15R L5-15P | WT | BK | 4716 | 4715 |
| 15 | 2P 3W | 250 | L6-15R L6-15P | WT | BK | 4586 | 4585 |
| 15 | 2P 3W | 277 | L7-15R L7-15P | WT | BK | 4786 | 4785 |

WT=white BK=black TP=transparent YL=yellow OR=orange

Specifications

| | |
|-------------------------------------|---|
| Agency Listings | U.L. Listed File E57672 C.S.A. Certified File LR81290 |
| Dielectric Withstand Voltage | >3,000V |
| Heat Rise | Maximum 30°C after 100 cycles at 150% of rated current |
| Current Interrupting | Yes |
| Terminal Accommodation | #18-10 |
| Plugs & Connectors | |
| Front & Rear Housing | Nylon □ Tough and resistant to a wide range of chemicals. U.L. Recognized for 125°C continuous use. U.L. 94V-2 Flammability Index. |
| Cord Clamp | Nylon |
| Terminals & Contacts | Perma-Lock □ lug-type terminals provide superior wire holding. Clamp-lock provides quick, reliable, toolless assembly |
| Terminal Clamps & Screws | #8 solid brass for excellent conductivity. Combo head (#2 Phillips and Slot or #1 Robertson and Slot). |
| Terminal Cover | Clear polycarbonate |
| Cord Accommodation | .300" □ 655" |
| Receptacles | |
| Face and Housing | Glass-filled nylon □ Tough and resistant to a wide range of chemicals. U.L. 94V-2 Flammability Index. Meets Fed Spec WC-596F. Mounting straps, rivets and grounding strip are solid brass. |
| Terminal Clamps & Screws | #8 solid brass for excellent conductivity. |
| Terminals & Contacts | Clamp-type terminals provide superior wire holding. Rivetless, one-piece contacts eliminate joint resistance. |
| Flanged Inlets & Outlets | |
| Flange & Housing | Nylon |
| Blades (Inlet) | Solid brass |
| Contacts (Outlet) | Solid brass |
| Terminal Screws | Solid brass |
| Terminal Clamps | Solid brass |
| Terminal Cover | Clear polycarbonate |

Dimensions



IEC 320 Specification-Grade Connectors



Rugged Connectors for Industrial Computers, Servers, Peripherals, Utility Vehicles, Stage Lighting, Broadcast Sound & Video

UPremium IEC 320 connectors designed for critical applications perfect for harsh handling and harsh environments

UIEC 320 is the International standard for appliance power connectors

URugged and rewirable connectors are used to supply power to a wide range of electronic equipment

UShock-absorbing design is less vulnerable to shattering or cracking when abused

UExclusive Perma-Lock™ terminals for secure, easy to wire connections

UDeep funnel wire pockets to easily guide wire insertion

UAdjustable cord clamp provides superior strain relief

UCord clamp insert allows for greatest range of cord sizes



Specifications

| Amps | Poles/ Wires | Voltage | IEC Config. | Connector |
|------|-----------------|---------|-------------|-----------|
| 15 | 2P 3W | 120 | | 320IEC13 |
| 15 | 2P 3W | 120 | | 320IEC15 |
| 20 | 2P 3W | 120 | | 320IEC19 |

The Maringo 320IEC13 is rated for service where maximum pin temperature of mating inlet does not exceed 70°C. U.L. and C.S.A. allow its use at 15 amps, while European agencies permit 10 amps (220-240VAC).

The Maringo 320IEC15 is rated for service where maximum pin temperature of mating inlet does not exceed 120°C. U.L. and C.S.A. allow its use at 15 amps, while European agencies permit 10 amps (220-240VAC).

The Maringo 320IEC19 is rated for service where maximum pin temperature of mating inlet does not exceed 70°C. U.L. and C.S.A. allow its use at 20 amps, while European agencies permit 16 amps (250VAC).

OEM Available: Add suffix `-OEM` to the item number for bulk packaging.



20 & 30 Amp Locking Devices

Plugs & Connectors

- U Rear housing key fits into front portion for ease of assembly
- URibbed housing allows for secure gripping
- UCord clamp screws are recessed in housing for neat, clean appearance
- UAdjustable cord clamp provides superior strain relief
- UClose-in wire entrance holes and generous wiring space make it easy to wire
- UExclusive Perma-Lock terminals for secure, easy to wire connections
- UTerminals are open, ready to wire for quickest assembly
- UBeveled housing so device won't get caught on stairs, equipment, etc
- UDust seal keeps contaminants out of wiring chamber
- UThick walled nylon housing resists abuse, corrosion and most chemicals
- UDevices are clearly marked with amperage, voltage, rating, and NEMA configuration
- UU.L. Listed and C.S.A. Certified for make or break under load

Receptacles

- UGlass-filled nylon body and face provides excellent impact, heat and chemical resistance
- UBoss diameter is 1.56" for 20 and 30 amp devices
- UAll-brass mounting strap and grounding system provides low resistance ground path and superior corrosion resistance
- UTerminal combo head screws are clearly marked in accordance with the National Electrical Code
- UU.L. Listed and C.S.A. Certified for make or break under load

Flanged Inlets and Outlets

- USimilar design features as plugs and connectors
- UMounted in a flanged nylon housing that allows mounting in a panel without access from the rear
- UClean design eliminates assembly screws from the front of the Inlets & Outlets



Cord Grip

Powerful mechanical clamp is located inside the housing resulting in a neat, compact design. The clamp traps the cord against the rear of the housing for a superior cord grip, preventing strain on terminals. Internal cord clamp accommodates the widest range of cord sizes and shapes.



Terminals

The clear terminal cover allows visual inspection of the terminal area. Large terminals with solid brass clamps bundle the wires for a neat, secure connection. Terminals are clearly marked in accordance with the National Electrical Code.



Single-Piece Connector Contacts

A Maringo exclusive feature! Longer beam provides more contact pressure. One-piece design eliminates the rivet found on many NEMA locking devices. All of the above features provide for a lower resistance connection and reduce the chance of heat rise that damages devices.



One-Piece All-Brass Receptacle Contacts

Sturdy one-piece design eliminates the rivet found in conventional contacts. No rivet means less chance for resistance and heat rise. The sturdy design provides greater contact pressure over the life of the device, and is found in all 20 and 30 amp receptacles.



Receptacle Clamp Terminals

The clamp is barbed to hold the conductor in place and cut oxide build-up. The entire terminal is securely held in place by the body of the device.

Configurations

Locking



| Amps | Poles/ Wires | Voltage | NEMA Config. | | Body Color | Housing Color | Connector | Plug | Receptacle | Flanged Inlet | Flanged Outlet |
|----------------------|-----------------|----------------|-----------------|--|---------------|------------------|-----------|--------|------------|------------------|-------------------|
| Standard NEMA | | | | | | | | | | | |
| 20 | 2P 3W | 125 | | | WT | BK | 205C | 205P | 205R | 205FI | 205FO |
| 20 | 2P 3W | 125 | | | BK | BK | 205CBL | 205PBL | □ | □ | □ |
| 20 | 2P 3W | 250 | | | WT | BK | 206C | 206P | 206R | 206FI | 206FO |
| 20 | 2P 3W | 250 | | | BK | BK | 206CBL | 206PBL | □ | □ | □ |
| 20 | 2P 3W | 277 | | | WT | BK | □ | 207P | □ | □ | □ |
| 20 | 3P 4W | 125/250 | | | WT | BK | 2014C | 2014P | 2014R | 2014FI | 2014FO |
| 20 | 3P 4W | 3□ 250 | | | WT | BK | 2015C | 2015P | 2015R | 2015FI | 2015FO |
| 20 | 3P 4W | 3□ 480 | | | WT | BK | 2016C | 2016P | 2016R | □ | □ |
| 20 | 4P 5W | 3□Y 120/208 | | | WT | BK | 2021C | 2021P | 2021R | □ | 2021FO |
| Non-NEMA | | | | | | | | | | | |
| 20 | 4P 4W | 3□Y 120/208 | | | WT | BK | 7413C | 7411C | □ | □ | □ |

Replacement use only



| Corrosion Resistant | | | | | | | | | | | |
|----------------------------|-------|-----|--|--|----|----|---------|---------|--------|---|---|
| 20 | 2P 3W | 125 | | | WT | YL | 205CRCN | 205CRPN | 205CRR | □ | □ |



| Connect Glow | | | | | | | | | | | |
|---------------------|-------|-----|--|--|----|----|-------|-------|---|---|---|
| 20 | 2P 3W | 125 | | | WT | TP | 205CL | 205PL | □ | □ | □ |



| Isolated Ground | | | | | | | | | | | |
|------------------------|-------|-----|--|--|----|----|---|---|--------|---|---|
| 20 | 2P 3W | 125 | | | OR | OR | □ | □ | 205RIG | □ | □ |
| 20 | 2P 3W | 250 | | | OR | OR | □ | □ | 206RIG | □ | □ |

WT=white BK=black TP=transparent YL=yellow OR=orange

Configurations



Locking

| Amps | Poles/ Wires | Voltage | NEMA Config. | Body Color | Housing Color | Connector | Plug | Receptacle | Flanged Inlet | Flanged Outlet |
|---------------|-----------------|--------------------------|---------------------|---------------|------------------|-----------|-------|------------|--------------------------|-------------------|
| Standard NEMA | | | | | | | | | | |
| 30 | 2P 3W | 125 | L5-30R L5-30P | WT | BK | 305C | 305P | 305R | 305FI | 305FO |
| 30 | 2P 3W | 250 | L6-30R L6-30P | WT | BK | 306C | 306P | 306R | 306FI | 306FO |
| 30 | 3P 4W | 125/250 | L14-30R L14-30P | WT | BK | 3014C | 3014P | 3014R | 3014FI | 3014FO |
| 30 | 3P 4W | 3 \square 250 | L15-30R L15-30P | WT | BK | 3015C | 3015P | 3015R | 3015FI | 3015FO |
| 30 | 3P 4W | 3 \square 480 | L16-30R L16-30P | WT | BK | 3016C | 3016P | 3016R | <input type="checkbox"/> | 3016FO |
| 30 | 4P 5W | 3 \square Y 120/208 | L21-30R L21-30P | WT | BK | 3021C | 3021P | 3021R | <input type="checkbox"/> | 3021FO |



| Corrosion Resistant | | | | | | | | | | |
|---------------------|-------|-----|-------------------|----|----|---------|---------|---------|--------------------------|--------------------------|
| 30 | 2P 3W | 125 | L5-30R L5-30P | WT | BK | 305BC | 305BP | 305CRRB | <input type="checkbox"/> | <input type="checkbox"/> |
| 30 | 2P 3W | 125 | L5-30R L5-30P | WT | YL | 305CRCN | 305CRPN | 305CRR | <input type="checkbox"/> | <input type="checkbox"/> |



| Isolated Ground | | | | | | | | | | |
|-----------------|-------|-----|-------------------|----|----|--------------------------|--------------------------|--------|--------------------------|--------------------------|
| 30 | 2P 3W | 125 | L5-30R L5-30P | OR | OR | <input type="checkbox"/> | <input type="checkbox"/> | 305RIG | <input type="checkbox"/> | <input type="checkbox"/> |
| 30 | 2P 3W | 250 | L6-30R L6-30P | OR | OR | <input type="checkbox"/> | <input type="checkbox"/> | 306RIG | <input type="checkbox"/> | <input type="checkbox"/> |

WT=white BK=black TP=transparent YL=yellow OR=orange

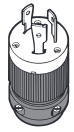
ACCESSORIES on page
25

OEM Available: Add suffix OEM to the item number for bulk packaging. Quantities vary. See your sales rep for quantity details.

Specifications

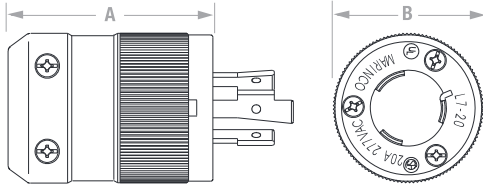
| | |
|-------------------------------------|--|
| Dielectric Withstand Voltage | >3,000V |
| Heat Rise | Maximum 30°C after 100 cycles at 150% of rated current. |
| Current Interrupting | Yes |
| Plugs & Connectors | |
| Front & Rear Housing | Nylon □ Tough and resistant to a wide range of chemicals. U.L. Recognized for 125°C continuous use. U.L. 94V-2 Flammability Index. |
| Cord Clamp | Nylon |
| Terminals & Contacts | Perma-Lock□ terminals provide superior wire holding. |
| Terminal Clamps & Screws | #10 solid brass for excellent conductivity. |
| Terminal Cover | Clear polycarbonate |
| Agency Listings | U.L. Listed File E57672 C.S.A. Certified File LR81290 |
| Cord Accommodation | 3-wire: .275"□.780" 4 & 5-wire: .456"□1.150" |
| Terminal Accommodation | 3-wire: #16□10 4 & 5-wire: #14□8 |
| Receptacles | |
| Face and Housing | Glass-filled nylon □ Tough and resistant to a wide range of chemicals. U.L. Recognized for 130°C continuous use. U.L. 94V-O Flammability Index. Mounting straps, rivets and grounding strip are solid brass. |
| Terminal Clamps & Screws | #10 solid brass for excellent conductivity. Can accept up to a #6 ring terminal. |
| Agency Listings | U.L. Listed File E111198 C.S.A. Certified File LR81290 |
| Terminals & Contacts | Clamp-type terminals provide wire holding. Rivetless, one-piece contacts eliminate joint resistance. |
| Terminal Accommodation | #14□8 |
| Flanged Inlets & Outlets | |
| Flange & Housing | Nylon |
| Blades (Inlet) | Solid brass |
| Contacts (Outlet) | Solid brass |
| Terminal Screws | Solid brass |
| Terminal Clamps | Solid brass |
| Terminal Cover | Clear polycarbonate |

Dimensions



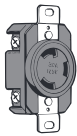
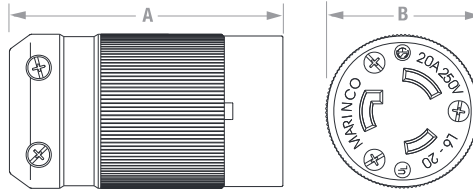
Plugs

| | A | B |
|------------|-------|-------|
| 3 Wire | 2.54" | 1.84" |
| 4 & 5 Wire | 3.04" | 2.11" |



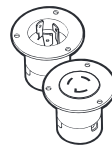
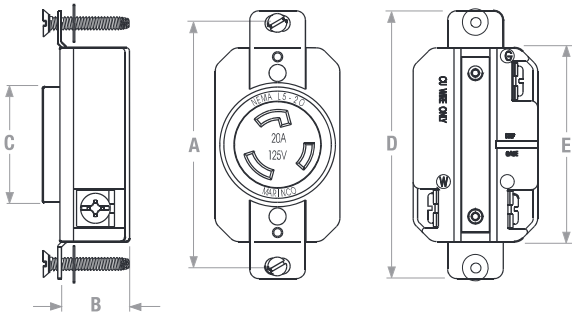
Connectors

| | A | B |
|------------|-------|-------|
| 3 Wire | 3.55" | 1.84" |
| 4 & 5 Wire | 4.10" | 2.11" |



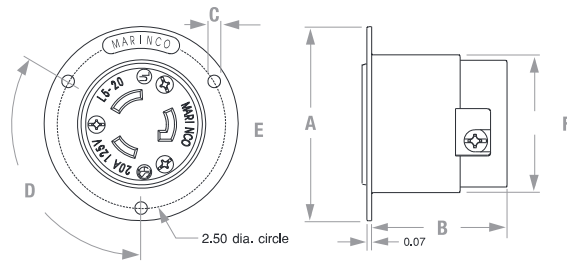
Receptacles

| | A | B | C | D | E |
|------------|-------|------|-------|-------|-------|
| 3 Wire | 3.28" | .97" | 1.56" | 3.63" | 2.38" |
| 4 & 5 Wire | 3.28" | .97" | 1.56" | 3.63" | 2.38" |



Inlets & Outlets

| | A | B | C | D | E | F |
|------------|-------|-------|-------|------|-------|-------|
| 3 Wire | 2.88" | 2.00" | .185" | 120□ | 1.25" | 2.04" |
| 4 & 5 Wire | 3.02" | 1.93" | .185" | 120□ | 1.35" | 2.19" |



50 Amp Locking Devices

Plugs & Connectors

- U Rear housing key fits into front portion for ease of assembly
- URibbed housing allows for secure gripping
- UStainless steel plug sleeve provides greater strength and protection
- UNon-metallic shell around the plug sleeve eliminates exposed metal parts
- UCord clamp screws are recessed in housing for neat, clean appearance
- UAdjustable cord clamp provides superior strain relief
- UClose-in wire entrance holes and generous wiring space make it easy to wire
- UExclusive Perma-Lock™ terminals for secure, easy to wire connections
- UTerminals are open, ready to wire for quickest assembly
- UColor coded wire entrance holes make devices simple and easy to wire
- UBeveled housing so device won't get caught on stairs, equipment, etc
- UNeoprene Dust seal keeps contaminants out of wiring chamber
- UThick walled nylon housing resists abuse, corrosion and most chemicals
- UDevices are clearly marked with amperage, voltage, rating, and NEMA configuration

Receptacles

- UGlass-filled nylon body provides excellent impact, heat and chemical resistance
- UMounts in standard FD box
- UHeavy-duty brass mounting strap and ground system provide a low resistance ground path and superior corrosion resistance
- UTerminals are clearly marked in accordance with the National Electrical Code

Terminal

Marinco's unique Perma-Lock™ tempered brass lug with nickel plated screw completely captures and compresses the wire. As the Perma-Lock™ terminal screw tightens down on the contact tang, it compresses the wire underneath the tang, causing the screw to exert an upwards lift on the collar overleaf. This lifting action locks up the screw's threads. Heat-cycling and vibration cannot loosen the screw and stress-relieving is virtually eliminated.



Wiring Devices: 50 Amp Locking

Configurations



Locking

| Amps | Poles/ Wires | Voltage | Config. | Body Color | Housing Color | Connector | Plug | Receptacle | Flanged Inlet | Flanged Inlet w/ spring loaded lid |
|-----------------|-----------------|--------------------------------|----------------------|---------------|------------------|-----------|---------|--------------------------|--------------------------|---|
| Standard | | | | | | | | | | |
| 50 | 2P 3W | 125 | Calif. Standard | WT | BK | CS6360N | CS6361N | CS6370 | <input type="checkbox"/> | <input type="checkbox"/> |
| 50 | 2P 3W | 250 | Calif. Standard | WT | BK | CS8264N | CS8265N | CS8269 | CS8275 | <input type="checkbox"/> |
| 50 | 2P 3W | 250 DC 600 AC | Replacement use only | WT | BK | 3762N | 3763N | 3771 | 3777 | <input type="checkbox"/> |
| 50 | 2P 3W | 480 | Calif. Standard | WT | BK | CS8464N | CS8465N | CS8469 | <input type="checkbox"/> | <input type="checkbox"/> |
| 50 | 3P 4W | 125/250 | Calif. Standard | WT | BK | CS6364N | CS6365N | CS6369 | CS6375 | CS6375FL |
| 50 | 3P 4W | 3 <input type="checkbox"/> 250 | Calif. Standard | WT | BK | CS8364N | CS8365N | CS8369 | CS8375 | <input type="checkbox"/> |
| 50 | 3P 4W | 250 DC 600 AC | Replacement use only | WT | BK | 3764N | 3765N | 3769 | 3775 | <input type="checkbox"/> |
| 50 | 3P 4W | 250 DC 600 AC | Replacement use only | WT | BK | 7764N | 7765N | <input type="checkbox"/> | 7958 | <input type="checkbox"/> |
| 50 | 3P 4W | 3 <input type="checkbox"/> 480 | Calif. Standard | WT | BK | CS8164N | CS8165N | CS8169 | CS8175 | <input type="checkbox"/> |



| Corrosion Resistant | | | | | | | | | | |
|----------------------------|-------|---------|------|----|----|---------|---------|---------|--------------------------|--------------------------|
| 50 | 2P 3W | 125 | SS-1 | WT | YL | 6360CRN | 6361CRN | 6370CR | <input type="checkbox"/> | <input type="checkbox"/> |
| 50 | 3P 4W | 125/250 | SS-2 | WT | YL | 6364CRN | 6365CRN | 6369CRS | <input type="checkbox"/> | <input type="checkbox"/> |

WT=white BK=black TP=transparent YL=yellow OR=orange

Note: 50A corrosion resistant devices are not CS (California Standard).

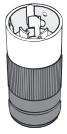
ACCESSORIES on page
25

OEM Available: Add suffix OEM to the item number for bulk packaging. Quantities vary. See your sales rep for quantity details.

Specifications

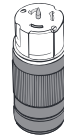
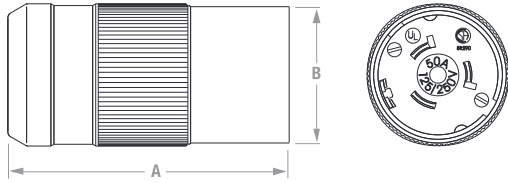
| | |
|-------------------------------------|--|
| Dielectric Withstand Voltage | >3,000V |
| Heat Rise | Maximum 30°C after 100 cycles at 150% of rated current. |
| Current Interrupting | Yes |
| Plugs & Connectors | |
| Gasket | Neoprene |
| Assembly Screws | Stainless steel |
| Body | Nylon |
| Cord Clamps | Glass-filled nylon |
| Plug Shroud | Stainless steel with PVC exterior |
| Blades | Solid brass (plugs) |
| Contacts | Copper alloy (connectors) |
| Terminal Clamps & Screws | Brass |
| Agency Listings | U.L. Listed File E57672 C.S.A. Certified File LR81290 |
| Cord Accommodation | .680"×1.125" |
| Terminal Accommodation | #10-4 |
| Receptacles | |
| Body | Glass-filled nylon |
| Ground Strap | Brass |
| Contacts | Brass |
| Terminal Screws | Brass |
| Terminal Clamps | Brass |
| Terminal Accommodation | #10-6 |
| Flanged Inlets & Outlets | |
| Flange Housing | Nylon |
| Insulator | Nylon |
| Blades | Brass |
| Terminal Clamps | Brass |
| Terminal Accommodation | #10-4 |

Dimensions



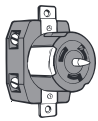
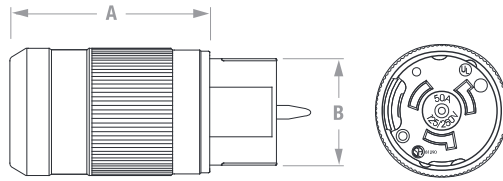
Plugs

| A | B |
|-------|-------|
| 4.73" | 2.29" |



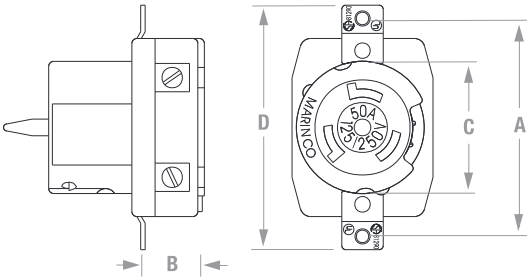
Connectors

| A | B |
|-------|-------|
| 3.72" | 1.98" |



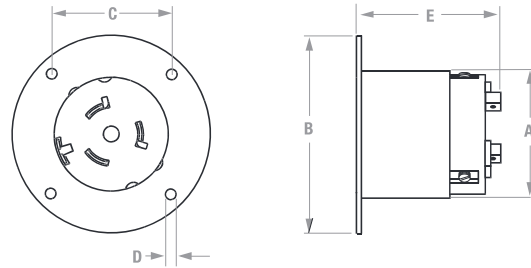
Receptacles

| A | B | C | D |
|-------|-------|-------|-------|
| 3.28" | 1.08" | 1.98" | 3.68" |



Inlets











| A | B | C | D | E |
|-------|-------|-------|------|-------|
| 2.25" | 3.50" | 3.00" | .18" | 2.63" |



One-Piece Adapters

These adapters do not have covers and are not recommended for use in wet locations.







| Item # | Connector end | Plug end |
|--------|--|--|
| S20-15 |  15 or 20A 125V Straight Blade 5-20R |  20A 125V Locking L5-20P |
| S30-15 |  15 or 20A 125V Straight Blade 5-20R |  30A 125V Locking L5-30P |
| S15-30 |  30A 125V Locking L5-30R |  15A 125V Straight Blade 5-15P |
| S20-30 |  30A 125V Locking L5-30R |  20A 125V Locking L5-20P |
| 125W |  30A RV Connector |  30A 125V Locking L5-30P |

Pigtail Adapters

These adapters are equipped with covers and sealing collars (where indicated), and are for use in wet locations. Marincos unique sealing collar system with MarineGuard II cover joins the adapter to the cordset with a positive, mechanical connection which provides maximum moisture protection.









| Item # | Connector end | Plug end |
|--------|---|---|
| 104SPP |  30A 125V Locking with Sealing Collar System L5-30R |  15A 125V Straight Blade with Locking Screw 5-15P |
| 105SPP |  15A 125V Straight Blade 5-15R |  30A 125V Locking L5-30P |

Y Adapters

These adapters are equipped with covers and sealing collars (where indicated), and are for use in wet locations.



| Item # | Connector end | Plug end |
|--------|---|--|
| 152AY |  2-30A 125V Locking w/ Sealing Collar System L5-30R |  50A 125V Locking |
| 153AY |  2-30A 125V Locking w/ Sealing Collar System L5-30R |  50A 125/250V Locking |
| 157AY |  2-30A 125V Locking w/ Sealing Collar System L5-30R |  30A 125V Locking L5-30P |

Wiring Devices: Covers

| Plug Covers | Plugs | Connectors | Connector Covers |
|--|--|--|--|
|  <p>6017 Cover for 15A & 20A straight blade and 15A locking plugs</p> |  <p>15A & 20A straight blade and 15A locking plugs</p> |  <p>15A & 20A straight blade and 15A locking connectors</p> |  <p>6018 Cover for 15A & 20A straight blade and 15A locking connectors</p> |
| Waterproof Plug Covers | Plugs | Connectors | Waterproof Connector Covers |
|  <p>6017Y Use with 5266CR or 4721CR</p> |  <p>15A & 20A straight blade and 15A locking plugs</p> |  <p>15A & 20A straight blade and 15A locking connectors</p> |  <p>6018Y Use with 5369CR, 5269CR or 4731CR</p> |
|  <p>102N Cover for 20A and 30A plugs Use with 305CRPN or 205CRPN</p> |  <p>20A & 30A 3-wire locking plugs</p> |  <p>20A & 30A 3-wire locking connectors</p> |  <p>103RN OEM# 103RN.OEM Cover for 20A & 30A connectors Use with 305CRCN or 205CRCN</p> <p>110R Sealing collar w/ ring for 20A & 30A</p> |
|  <p>7717N (YELLOW) 102182 (WHITE) Cover for 50A plugs Use with 6361CRN or 6365CRN</p> |  <p>50A 3- & 4-wire locking plugs</p> |  <p>50A 3- & 4-wire locking connectors</p> |  <p>7715CRN Cover for 50A connectors Use with 6360CRN or 6364CRN</p> <p>510R Sealing collar w/ ring for 50A</p> |
| Inlet/Outlet Covers | Inlets/Outlets | Connectors | Charger Connector Covers |
|  <p>WP1 Raintight cover for 15A & 20A straight blade and 15A locking inlets and outlets</p> |  <p>15A & 20A straight blade and 15A locking inlets</p> |  <p>15A & 20A straight blade and 15A locking connectors</p> |  <p>1520BI.OEM Connector cover for charger inlet Available only in .OEM packaging</p> |



Raintight Cover
 Use with all Maringo 15A and 20A straight blade, as well as 15A locking, angled inlets and outlets. Standard: black.
 Item # WP1



Weatherproof Cover
 Yellow LEXAN polycarbonate cover with lip lid
 Fits 15A, 20A, & 30A single receptacles
 Item # 7420CRS



Weather-resistant Cover
 Low cost, quick assembly. Spring-loaded lip lid. Fits 3-, 4- and 5-wire, single receptacles. Black plastic.
 Item # 2030FL



Weatherproof Cover
 Yellow LEXAN polycarbonate cover with lip lid
 Fits 50A receptacles 6369CR & 6370CR
 Item # 7788CRS



Sealing Collar w/ Threaded Ring
 Provides maximum moisture protection between cordset & adapter
 Use with 50 amp systems only
 Item # 510R



Sealing Collar w/ Threaded Ring
 Provides maximum moisture protection between cordset & adapter
 Use with 20 & 30 amp locking systems
 Item # 110R



Threaded Sealing Ring
 Use with 30 amp systems
 Item # 100R



Threaded Locking Sealing Ring
 Use with 50 amp systems
 Item # 500R



Watertight Connector Cap
 For use on 16 or 32 amp products for CE compliance
 For use on 30 or 50 amp products to protect the connector when not in use (not compatible with California standard 50 amp devices)
 Item # 199109PK 16A/30A
 Item # 199110PK 32A/50A

CAM Technology

CL Series inline connectors assemble easily with hand tools and offer superior durability and safety. CL Series devices offer strain relief for all wire gauges. One housing fits #6-4/0 cable.

CLS Series and CLM Series inline connectors have a non-conductive retaining screw which passes through the metal contact and fastens at both ends to the retaining ring, providing maximum resistance to excessive torque loading. Constructed of solid weatherproof materials, all CLS and CLM products are UL listed, CSA listed, NEMA 3R and NEMA 4 rated for wet locations.

All CL, CLS and CLM Series products mate precisely with all other manufacturers' cam products.

CL panel mount devices are constructed of super tough nylon housing which will not chip or crack under extreme temperatures and impact conditions. The unique mounting system permits the use of self tapping stainless screws. No lock washers or nuts to try and hold during assembly.



OEM Packaging Option

Devices are available bulk packed with the components packed separately. Add suffix OEM to the item number.



CLM Mini Series 15 Inline

- UNEMA 3R/4
- USantoprene boot
- U150A 600V
- UAccepts #8-#2 wire

| Wire Connection | M/F | Item # |
|-----------------|--------|--------|
| #8-#2 AWG | Male | CLM2M |
| | Female | CLM2F |

A B C D E F G H



CLS Series 16 Inline

- UNEMA 3R/4
- USantoprene boot
- U400A 600V
- UAccepts #6-4/0 wire

| Wire Connection | M/F | Item # |
|---|--------|-----------|
| #6-#2 AWG | Male | CLS2MB |
| | Female | CLS2FB |
| #6-#2 AWG brass contact with hardware | Male | 600100-2 |
| | Female | 600099-2 |
| #2-2/0 AWG | Male | CLS20MB |
| | Female | CLS20FB |
| #2-2/0 AWG brass contact with hardware | Male | 600100-20 |
| | Female | 600099-20 |
| 2/0-4/0 AWG | Male | CLS40MB |
| | Female | CLS40FB |
| 2/0-4/0 AWG brass contact with hardware | Male | 600100-40 |
| | Female | 600099-40 |
| Boot with retaining screw | Male | 600098 |
| | Female | 600097 |

A B C D E F G H



CL Series 16 Inline

- USeries 16 Compatible Inline
- UNEMA 1
- USuper Tough Nylon Housing
- U400A 600V
- UAccepts #6 - 4/0 Wire
- U2 Piece shell makes it easy to assemble

| Wire Connection | M/F | Item # |
|-----------------|--------|--------|
| #6-#2 AWG | Male | CL2MB |
| | Female | CL2FB |
| #2-2/0 AWG | Male | CL20MB |
| | Female | CL20FB |
| 2/0-4/0 AWG | Male | CL40MB |
| | Female | CL40FB |

A B C D E F G H



CLS Series 18 Inline Ballnose

- UNEMA 3R/4
- USantoprene boot
- U400A 600V
- UAccepts #6-4/0 wire

| Wire Connection | M/F | Item # |
|---|--------|-----------|
| #6-#2 AWG | Male | CLS182MB |
| | Female | CLS182FB |
| #6-#2 AWG brass contact with hardware | Male | 500107.1 |
| | Female | 500104A.1 |
| #2-2/0 AWG | Male | CLS1820MB |
| | Female | CLS1820FB |
| #2-2/0 AWG brass contact with hardware | Male | 500105A.1 |
| | Female | 500102A.1 |
| 2/0-4/0 AWG | Male | CLS1840MB |
| | Female | CLS1840FB |
| 2/0-4/0 AWG brass contact with hardware | Male | 500106A.1 |
| | Female | 500103.1 |
| Boot with retaining screw | Male | 203242 |
| | Female | 203243 |

A B C D E

TECH DRAWINGS on page 34

WHEN YOU ORDER

Item # + Color Letter + .OEM = Ordering Number

A B C D E F G H

Examples: CL20MB + -E + .OEM = CL20MB-E.OEM CLM2F + -H = CLM2F-H



CLM Mini Panel Mounts

USuper Tough Nylon
U150A 600V

UComes with qty (3) #8 Self Tapping Screws for Mounting Flange

UOptional drilled out version (X) for #10/32 nut and bolt

| Wire Connection | M/F | Item # |
|------------------------------------|--------|--------|
| #8 #2 AWG double set screw | Male | CLMMR2 |
| | Female | CLMFR2 |
| 5/16" x 18 threaded stud 3/4" long | Male | CLMMRS |
| | Female | CLMFRS |



CLSM Mini Panel Mounts

USantoprene
U150A 600V

UDrilled out for #10-32 nut and bolt (Not provided)

| Wire Connection | M/F | Item # |
|------------------------------------|--------|---------|
| #8 #2 AWG double set screw | Male | CLSMR2 |
| | Female | CLSMFR2 |
| 5/16" x 18 threaded stud 3/4" long | Male | CLSMRS |
| | Female | CLSMFRS |



CL Panel Mounts

USuper Tough Nylon
U400A 600V

UComes with qty (4) of #8 Plastite Self Threading Screw for Mounting Flange

UOptional drilled out version (X) for #10-32 nut and bolt

| Wire Connection | M/F | Item # |
|------------------------------------|--------|-------------|
| #2 #2/0 AWG double set screw | Male | CL20MRB |
| | Female | CL20FRB |
| 2/0 #4/0 AWG double set screw | Male | CL40MRB |
| | Female | CL40FRB |
| One hole bus bar 5/16" - 18 thread | Male | CL40MRB-BB* |
| | Female | CL40FRB-BB* |
| 1-1/8" threaded stud | Male | CL40MRSB |
| | Female | CL40FRSB |
| 2" threaded stud | Male | CL40MRB2 |
| | Female | CL40FRB2 |



CLS Panel Mounts

USantoprene
U400A 600V

UBrass threaded inserts for #10/32 bolt (Not provided)

UOptional drilled out version (X) for #10-32 nut and bolt

| Wire Connection | M/F | Item # |
|------------------------------------|--------|--------------|
| 2/0 #4/0 AWG double set screw | Male | CLS40MRB |
| | Female | CLS40FRB |
| One hole bus bar 5/16" - 18 thread | Male | CLS40MRB-BB |
| | Female | CLS40FRB-BB |
| Two hole bus bar 5/16" - 18 thread | Male | CLS40MRB-BB2 |
| | Female | CLS40FRB-BB2 |
| 1-1/8" threaded stud | Male | CLS40MRB |
| | Female | CLS40FRSB |



TECH DRAWINGS on page 34

WHEN YOU ORDER Item # + Color Letter + Mounting Holes + .OEM = Ordering Number

A
B
C
D
E
F
G
H

Examples: CL20MRB + E + X(drill out) + .OEM = CL20MRB-EX.OEM CLMFR2 + H = CLMFR2-H



CLS 45 Degree Panel Mounts

U.Santoprene

U400A 600V

UOne piece brass contact

UBrass eyelets for #10-32 through bolt (Not provided)

| Wire Connection | M/F | Item # |
|------------------------------------|--------|-------------|
| 1-1/8" threaded stud | Male | CLS45MRSB |
| | Female | CLS45FRSB |
| 2/0-4/0 AWG double set screw | Male | CLS45MRB |
| | Female | CLS45FRB |
| 2" threaded stud | Male | CLS45MR2SB |
| | Female | CLS45FR2SB |
| One hole bus bar 5/16" - 18 thread | Male | CLS45MRB-BB |
| | Female | CLS45FRB-BB |

A B C D E F G H

WHEN YOU ORDER

Item # + **A B C D E F G H** Color Letter + .OEM = Ordering Number

Examples: CLS45MRSB + **-E** = CLS45MRSB-E



Male-Male Coupler

U150A / 600V

UMale-Male

Item # CLMMM

A B C D E



Female-Female Coupler

U150A / 600V

UFemale-Female

Item # CLMFF

A B C D E



Male-Male-Female T

U150A / 600V

UMale-Male-Female

Item # CLMPT

A B C D E



Male-Female-Female T

U150A / 600V

UMale-Female-Female

Item # CLMTT

A B C D E



400A Female-150A Female Cam Reducer

U400A / 600V

UFemale-Female

Item # CLMADFF

A



400A Male-150A Female Cam Reducer

U400A / 600V

UMale-Female

Item # CLMADMF

A B C D E



400A Female-150A Male Cam Reducer

U400A / 600V

UFemale-Male

Item # CLMADFM

A B C D E



400A Male-150A Male Cam Reducer

U400A / 600V

UMale-Male

Item # CLMADMM

A B C D E



Hard 3Fer 400A Male to Three 150A Females

U400A / 600V

UMale-Female-Female-Female

Item # CLMAD3F

A B C D E



Soft 3Fer 400A Male to Three 150A Female

U400A / 600V

UMale-Female-Female-Female

Item # CLMAD3FST

A B C D E

WHEN YOU ORDER

Item # + Color Letter = Ordering Number

A B C D E

Examples: CLMMM + -E = CLMMM-E

CLMTT + -B = CLMTT-B

CAM Technology

CL/CLS/CLM Adapters



Reverse Hard 3Fer
 U400A / 600V
 UFemale-Male-Male-Male
 Item # CA3M
 [B] [E]



Hard 3Fer
 U400A / 600V
 UMale-Female-Female-Female
 Item # CA3F
 [A] [B] [C] [D] [E]



Male-Male Coupler
 U400A / 600V
 UMale-Male
 Item # CDMM
 [A] [B] [C] [D] [E] [F] [G] [H]



Female-Female Coupler
 U400A / 600V
 UFemale-Female
 Item # CDFF
 [A] [B] [C] [D] [E] [F] [G] [H]



Paralleling T
 U400A / 600V
 UMale-Male-Female
 Item # CPT
 [A] [B] [C] [D] [E]



Tapping T
 U400A / 600V
 UMale-Female-Female
 Item # CTT
 [A] [B] [C] [D] [E]



Ballnose Hard 3Fer
 U400A / 600V
 UMale-Female-Female-Female
 Item # CA318F
 [A] [B] [C] [D] [E]



Ballnose Tapping T
 U400A / 600V
 UMale-Female-Female
 Item # CD18TT
 [A] [B] [C] [D] [E]



Ballnose Male and Tapernose Female
 U400A / 600V
 UMale-Female
 Item # CD1816MF
 [A] [B] [C] [D] [E]



Male Angle Panel Mount
 U400A / 600V
 Item # CL40MR-ANGLE
 Item # CL40MR-OFFSET
 [A] [B] [C] [D] [E] [F] [G] [H]



Female Angle Panel Mount
 U400A / 600V
 Item # CL40FR-ANGLE
 Item # CL40FR-OFFSET
 [A] [B] [C] [D] [E] [F] [G] [H]



Soft Paralleling T
 U400A / 600V
 UMale-Male-Female
 Item # CPTFST
 [B] [E]



Soft Tapping T
 U400A / 600V
 UMale-Female-Female
 Item # CTTFST
 [A] [B] [C] [D] [E]



Soft Tapping T
 U400A / 600V
 UMale-Female-Male
 Item # CTTMST
 [A] [B] [E]



Soft 3Fer Cam
 U400A / 600V
 UMale-Female-Female-Female
 Item # CA3FST
 [A] [B] [C] [D] [E]



Reverse Soft 3Fer
 U400A / 600V
 UFemale-Male-Male-Male
 Item # CA3MST
 [E]

WHEN YOU ORDER Item # + Color Letter = Ordering Number
 [A] [B] [C] [D] [E] [F] [G] [H]

Examples: CA3F + -E = CA3F-E



CL/CLS/CLM Protective Covers & Caps

Manufactured in UV-resistant polycarbonate, all snap back plastic covers are made with stainless steel offset, spring and pin. Designed for surface mount, the new snap back plastic covers are fully gasketed and NEMA 3R rated for weathertight protection.



Now available in Clear(Z)

Mini CAM Cover

- UFor 150 amp panel mounts
- UNEMA 3R
- UAll Plastic Construction
- UComes with gasket pre-applied

Item # CLM3R

A **B** **C** **D** **E** **F** **G** **H** **Z**



Now available in Clear(Z)

CAM Cover

- UFor 400 amp panel mounts
- UNEMA 3R
- UAll Plastic Construction
- UComes with gasket pre-applied

Item # CLL3R

A **B** **C** **D** **E** **F** **G** **H** **Z**



Through Mount Cover

- UFor 400 amp panel mounts
- UNEMA 1
- UMetal Standoff with Plastic Lid
- UFor use with through mounted Panel Mounts
- USnap back cover

Item # CL40WTC-S-062 0.370"□400" panel thickness

Item # CL40WTC-L-187 0.070"□090" panel thickness

A **B** **C** **D** **E** **F** **G** **H**



Surface Mount Cover

- UFor 400 amp panel mounts
- UNEMA 1
- UMetal Standoff with Plastic Lid
- UFor use with surface mounted Panel Mounts
- USnap back cover

Item # CL40WTC-L-062

Item # CL40WTC-L-125

A **B** **C** **D** **E** **F** **G** **H**



Santoprene Caps

- UProtective cap with lanyard

Item # CL40FC □ts female

Item # CL40MC □ts male

Item # CLMFC mini □ts female

Item # CLMMC mini □ts male

A **B** **C** **D** **E** **F** **G** **H**

WHEN YOU ORDER

Item # + Color Letter = Ordering Number

A **B** **C** **D** **E** **F** **G** **H**

Examples: CLM3R + **E** = CLM3R-E

CLL3R + **H** = CLL3R-H



Come-along Tool
Item # CLSPRESS



150A Connector Extractor
Item # 15CLM Male
Item # 15CLF Female



400A Connector Extractor
Item # 16CLM Male
Item # 16CLF Female



CLS Female Reforming Tool 400A
UCLS reforming tool restores damaged female cam-type contacts.
Item # 500072



Wire Shoe
UAvailable in standard pack only
UQty 30
Item # 430130.1 #2 AWG
Item # 430129.1 #6 AWG



Wire Shoe
UAvailable in standard pack only
UCLM/CLSM mini panel mounts, 25mm
UQty 25
Item # 430131.1 #2 AWG



20A Stage Pin Wire Shoe
UAvailable in standard pack only
UQty 300
Item # 430117.1 #12 AWG



Set Screw
UAvailable in standard pack only
UQty 50
Item # 500017PLT.1 CLS inline
Item # 430171.1 CLM inline
Item # 500032PLT.1 CL inline



Set Screw for #6 Wire
UAvailable in standard pack only
UGroup 5 and Bates 100A
UCLM/CLSM mini panel mounts
UQty 60
Item # 430126.1



Retaining Screw
UReplacement screw made of Super Tough Nylon
UAvailable in standard pack only
UQty 25
Item # 520710.1 CLS
Item # 520730.1 CLM



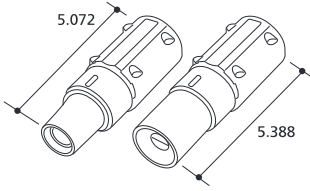
CL/CLS Copper Shim
UAvailable in standard pack only
UQty 25
Item # 430244.1



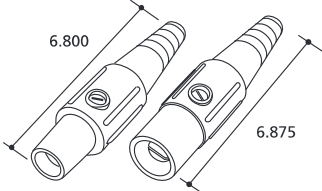
Strain Relief Wire
UAvailable in standard pack only
UQty 100
Item # 430245.1 CLS
Item # 430246.1 CLM

Dimensions

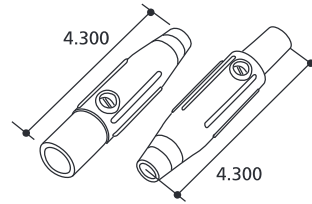
CL Series 16 Inline



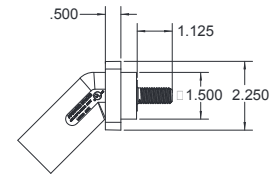
CLS Series 16 & 18 Inline



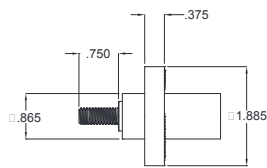
CLM Mini Series 15 Inlines



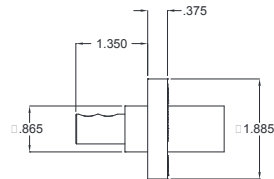
CLS45MRSB, CLS45FRSB



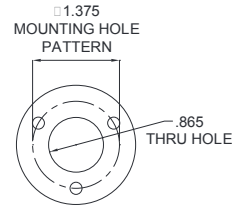
CLMMRS, CLMFRS,
CLSMMS, CLSMFRS



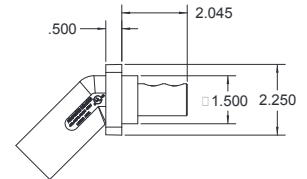
CLMMR2, CLMFR2,
CLSMFR2



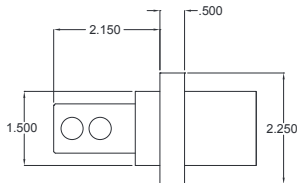
CLM Panel Mount
Family Cut-out



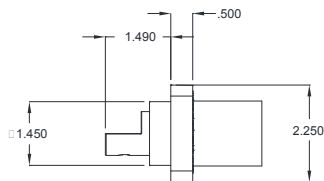
CLS45MRB, CLS45FRB



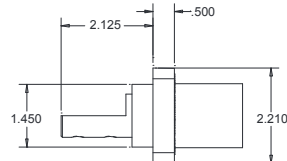
CL40MRB, CL40FRB,
CL20MRB, CL20FRB,
CLS40MRB, CLS40FRB



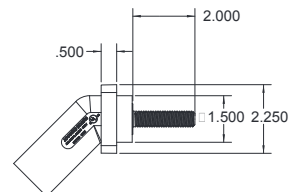
CL40MRB-BB, CL40FRB-BB,
CLS40MRB-BB, CLS40FRB-BB



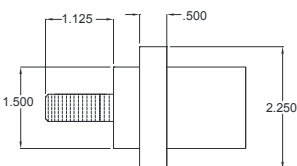
CLS40MRB-BB2,
CLS40FRB-BB2



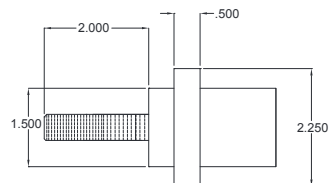
CLS45MR2SB,
CLS45FR2SB



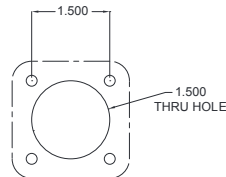
CL40MRSB, CL40FRSB,
CLS40MRSB, CLS40FRSB



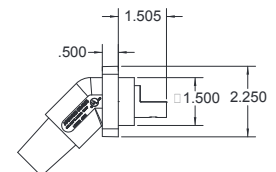
CL40MRSB2, CL40FRSB2



CL, CLS Panel Mount
Family Cut-out



CLS45MRB-BB,
CLS45FRB-BB





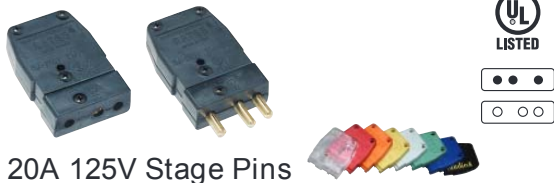
bates®

For 30 years bates stage pins have been the industry standard for stage lighting devices. Our Bates UltraDur connectors are manufactured from an extreme temperature tolerant nylon compound. This UltraDur Nylon performs in extreme temperatures to 500 deg F and is highly durable and resilient to punishing impacts. Bates stage pin connectors offer years of reliable service in the most demanding environments. Our pins are crafted from solid brass rod machined to +/- 0.0005" tolerance while allowing the pins to float which allows positive alignment and pin contact, which is critical to device life. Precision slotted and crimped female contacts are sized to provide constant spring contact pressure even when the pins are damaged. The 2 piece strain relief accommodates a wide range of wire sizes. All 20A bates stage pin inlines are available with clear or colored tops while the stage pin panel mounts can be ordered in specific colors. 100A 250V stage pins are available in yellow to denote the unique voltage rating.



GROUP 5®

Our Group 5 products continue to be precision machined from high temperature phenolic material. Our phenolic is the highest quality available today. Group 5 products have all the same features as our Bates UltraDur connectors while offering a traditional material.



20A 125V Stage Pins

UMade from Thermal Resistant Nylon 500
UAccepts #10 or #12 S Type Cable

| Wire Connection | M/F | Item # |
|-------------------------------|--------|--------|
| Set screw | Male | 20M |
| | Female | 20F |
| All white (cover and body) | Male | 20M-AW |
| | Female | 20F-AW |
| Ring terminal | Male | 20M-RT |
| | Female | 20F-RT |
| Clear cover | Male | 20M-X |
| | Female | 20F-X |

A B C D E G H X



bates TRIXFER Stage Pin Jumper Tap

The new Bates Trixfer stage pin jumper tap replaces cumbersome twofers, delivering grounded 20A power to multiple devices with faster, cleaner, simpler setup.

Item # TRIXFER Male-Female combo
Item # TRIXFER.FF Female-Female combo



60A 125V Stage Pins

UMade from Thermal Resistant Nylon 500
U#6 Type SC single conductor cable
UOr #6/3 or #8/3 Type W multiconductor cable

| Wire Connection | M/F | Item # |
|-----------------|--------|--------|
| Set screw | Male | 60M |
| | Female | 60F |



100A 125V Stage Pins

UMade from Thermal Resistant Nylon 500
UUse #2 or #4 Type SC single conductor cable
UOr use #4/3 or #6/3 Type W multiconductor cable
UBlack only to denote 125V

| Wire Connection | M/F | Item # |
|-----------------|--------|--------|
| Set screw | Male | 100M |
| | Female | 100F |



100A 250V Stage Pins

UMade from Thermal Resistant Nylon 500
UUse #2 or #4 Type SC single conductor cable
UOr use #4/3 or #6/3 Type W multiconductor cable
UYellow only to denote 250V

| Wire Connection | M/F | Item # |
|-----------------|--------|--------|
| Set screw | Male | 106M-H |
| | Female | 106F-H |

TECH DRAWINGS on page 40

OEM Available: Add suf x OEM to the item number for bulk packaging.



20A 125V Stage Pin Panel Mount

U Made from Thermal Resistant Nylon 500 □ F
 U Accepts #10 or #12 AWG

| Wire Connection | M/F | Item # |
|-----------------|--------|---------|
| Set screw | Male | 20MR |
| | Female | 20FR |
| Ring terminal | Male | 20FR-RT |



60A 125V Stage Pin Panel Mount

U Made from Thermal Resistant Nylon 500 □ F
 U Accepts #6 or #8 AWG

| Wire Connection | M/F | Item # |
|------------------|--------|----------|
| Ring terminal | Male | 60MR |
| | Female | 60FR |
| Double set screw | Male | 60MR-DSS |
| | Female | 60FR-DSS |



100A 125V Stage Pin Panel Mount

U Made from Thermal Resistant Nylon 500 □ F
 U Accepts #2 or #4 AWG
 U Black only to denote 125V

| Wire Connection | M/F | Item # |
|------------------|--------|-----------|
| Ring terminal | Male | 100MR |
| | Female | 100FR |
| Double set screw | Male | 100MR-DSS |
| | Female | 100FR-DSS |



100A 250V Stage Pin Panel Mount

U Made from Thermal Resistant Nylon 500 □ F
 U Accepts #2 or #4 AWG
 U Yellow only to denote 250V

| Wire Connection | M/F | Item # |
|------------------|--------|-------------|
| Ring terminal | Male | 106MR-H |
| | Female | 106FR-H |
| Double set screw | Male | 106MR-DSS-H |
| | Female | 106FR-DSS-H |

TECH DRAWINGS on page **40**

OEM Available: Add suf □ x □ OEM □ to the item number for bulk packaging.

GROUP 5®



20A 125V Stage Pins

U Made from Phenolic

U Accepts #10 or #12 S Type Cable

| Wire Connection | M/F | Item # |
|-----------------|--------|---------|
| Set screw | Male | G20M |
| | Female | G20F |
| Internal fuse | Male | G20M-FU |
| | Female | G20F-FU |



60A 125V Stage Pins

U Made from Phenolic

U #6 Type SC single conductor cable

U Or #6/3 or #8/3 Type W multiconductor cable

| Wire Connection | M/F | Item # |
|------------------------|--------|---------|
| Set screw | Male | G60M |
| | Female | G60F |
| Internal fuse | Male | G60M-FU |
| | Female | G60F-FU |
| Two cable inlet (2FER) | Male | G60M-DB |



100A 125V Stage Pins

U Made from Phenolic

U Use #2 or #4 Type SC single conductor cable

U Or use #4/3 or #6/3 Type W multiconductor cable

U Black only to denote 125V

| Wire Connection | M/F | Item # |
|------------------------|--------|----------|
| Set screw | Male | G100M |
| | Female | G100F |
| Internal fuse | Male | G100M-FU |
| | Female | G100F-FU |
| Two cable inlet (2FER) | Male | G100M-DB |



100A 250V Stage Pins

U Made from Phenolic

U Use #2 or #4 Type SC single conductor cable

U Or use #4/3 or #6/3 Type W multiconductor cable

U Yellow only to denote 250V

| Wire Connection | M/F | Item # |
|------------------------|--------|------------|
| Set screw | Male | G106M-H |
| | Female | G106F-H |
| Two cable inlet (2FER) | Male | G106M-DB-H |

GROUP 5®



100A 125V Stage Pin Panel Mount

- U Made from Phenolic
- U 100A 125V
- U Accepts #2 or #4 AWG

| M/F | Item # |
|--------|------------|
| Male | G100MR1-R5 |
| Female | G100FR1-R5 |



NEW 60A 125V Stage Pin Panel Mount

- U Made from Phenolic
- U 60A 125V
- U Accepts #6 or #8 AWG
- U Through panel mounting in 4"x1" cutout

| M/F | Item # |
|--------|----------|
| Female | G60FR-TH |

How much Amperage can a wire safely conduct?

The National Electrical Code publishes the following table showing how much amperage each size cable can carry:

| AWG Wire Size | AWG cm Area | Ohms/1000 ft | 2 Current Carrying Conductors | 3 Current Carrying Conductors |
|---------------|-------------|--------------|-------------------------------|-------------------------------|
| 18 | 1,600 | 6.385 | 10 | 7 |
| 16 | 2,600 | 4.016 | 13 | 10 |
| 14 | 4,100 | 2.525 | 18 | 15 |
| 12 | 6,500 | 1.588 | 25 | 20 |
| 10 | 10,500 | .9989 | 30 | 25 |
| 8 | 16,800 | .6282 | 40 | 35 |
| 6 | 26,600 | .3951 | 55 | 45 |
| 4 | 42,000 | .2485 | 70 | 60 |
| 2 | 66,500 | .1563 | 95 | 80 |

Ohms/1000 ft. can be used to calculate any voltage drop. The formula is: Voltage (drop in volts) = [1 (amperage) x circuit length in feet/1000 x Ohms/1000 ft.]

Wire Specifications

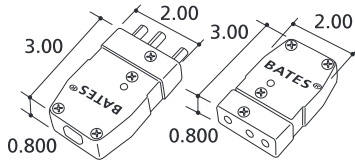
Diameter Ranges of Jacketed Cord in Accordance with Standard UL 62

| AWG | 2 Cond. | 3 Cond. | 4 Cond. | 5 Cond. |
|---------------------------------|--------------|--------------|--------------|--------------|
| Type* SV, SVO, SVT, SVTO | | | | |
| 18 | .220-.255" | .230-.265" | | |
| Type* SJ, SJO, SJT, SJTO | | | | |
| 18 | .280-.315" | .300-.335" | .325-.365" | |
| 16 | .305-.340" | .325-.360" | .350-.395" | |
| 14 | .335-.375" | .360-.395" | .390-.435" | |
| 12 | .405-.455" | .425-.475" | .465-.520" | |
| 10 | .540-.605" | .565-.635" | .625-.700" | |
| Type* S, SO, ST, STO | | | | |
| 18 | .340-.385" | .360-.400" | .385-.430" | .460-.510" |
| 16 | .365-.410" | .385-.430" | .410-.460" | .490-.550" |
| 14 | .495-.550" | .520-.575" | .560-.620" | .630-.705" |
| 12 | .565-.625" | .590-.655" | .640-.710" | .700-.770" |
| 10 | .615-.685" | .650-.720" | .700-.775" | .760-.840" |
| 8 | .780-.880" | .830-.930" | .925-1.050" | 1.000-1.150" |
| 6 | .920-1.050" | .970-1.100" | 1.050-1.200" | 1.180-1.330" |
| 4 | 1.060-1.210" | 1.130-1.280" | 1.250-1.450" | |
| 2 | 1.210-1.400" | 1.300-1.500" | 1.450-1.650" | |

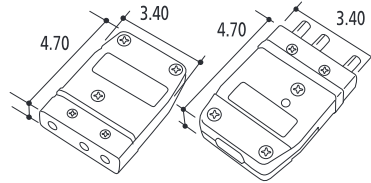
Dimensions

bates®

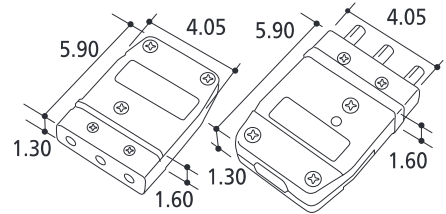
20A 125V Stage Pins



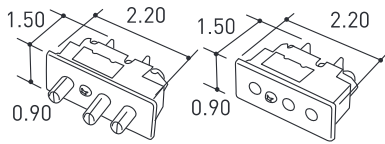
60A 125V Stage Pins



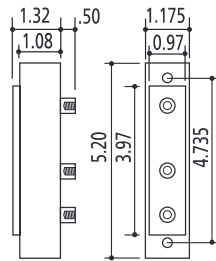
100A 125/250V Stage Pins



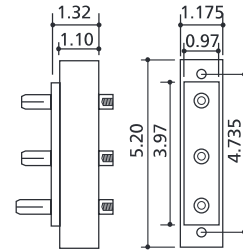
20A 125V Panel Mounts



60A 125V Panel Mounts

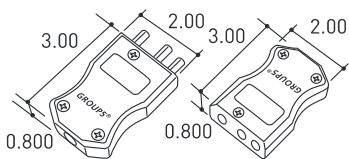


100A 250V Panel Mounts

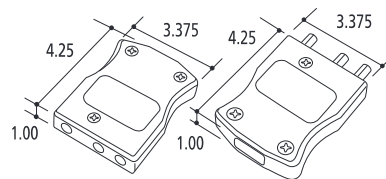


GROUP 5®

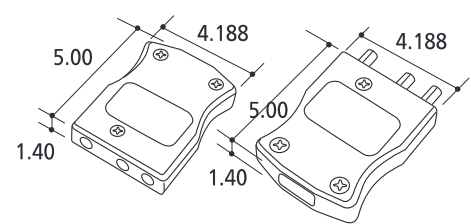
20A 125V Stage Pins



60A 125V Stage Pins



100A 125/250V Stage Pins



Batteries for every challenge



Mastervolt batteries are:

- U Maintenance-free
- U Safe (no gas formation)
- U Easy to install
- U Designed for cyclic use (charge/discharge)
- U Leak-proof

Issues to take into account:

- U Determining the correct battery capacity for your new battery/ batteries is very important.
- U Choosing the right battery charger lengthens the lifespan of your batteries considerably. Mastervolt's modern 3-step+ charge technology charges your batteries safely and quickly.
- U A control panel is the best way to make the most of your batteries.

To choose the right battery, go to the table on the next page.

When choosing the right batteries for your system, the key issue is not what you need but what you wish to have left over.

Mastervolt makes selecting the right battery easy. Whether you choose a low priced battery such as the AGM or an innovative and technologically advanced Lithium Ion battery, Mastervolt has the power solution for every application.

What's more, our batteries are extremely safe (no gas formation), maintenance free and very easy to install.

To make the choice even simpler, Mastervolt has divided its entire battery range of 32 types into six series and four different battery technologies. Each series has specific benefits as well as variations in price, capacity, dimensions, volume and lifespan.

All Mastervolt batteries are equipped with shock-proof positive and negative battery plates with rubber separation, while the electrolyte is absorbed in gel or glass fibre (AGM). A high-grade lead/calcium compound guarantees you a constant capacity and minimum self-discharging. Mastervolt has the right battery for every industrial application.



Which battery is best for your application?

| | | ① | ② | ③ | ④ |
|---|----------------------------|-----------------|-----------------------|----------------------|-------------------|
| | traditional open batteries | MLI Lithium Ion | MVG gel semi-traction | MVSV 2V gel traction | AGM semi-traction |
| Maintenance free | - | ++++ | ++++ | ++++ | ++++ |
| Gas formation during charging | + | +++++ | +++ | +++ | +++ |
| Self discharge while inactive | - | +++ | ++++ | ++++ | +++ |
| Lifespan with complete discharge | + | +++++ | +++ | ++++ | ++ |
| Lifespan with limited discharge | ++ | +++++ | ++++ | ++++ | +++ |
| Sensitivity to excessive charge voltage | ++ | +++++ | +++ | ++++ | ++ |
| Suitable for selection of battery bank with high capacity | + | ++++ | +++ | ++++ | ++ |
| Starting motors | ++ | ++++ | +++ | ++ | ++++ |
| Shock-resistance | + | ++++ | ++++ | ++++ | ++++ |
| Number of charge/discharge cycles | + | +++++ | +++ | ++++ | ++ |
| Temperature-resistance | + | ++++ | ++++ | ++++ | ++ |
| Installation/angle of inclination | - | ++++ | ++++ | ++++ | ++++ |
| Return on investment with limited use | + | +++ | +++ | ++++ | +++ |
| Return on investment with intensive use | + | +++++ | +++ | ++++ | ++ |
| Product warranty | ☐ 1 year | 2 year | 2 year | 7 year | 2 year |
| Worldwide onboard service | + | ++++ | ++++ | ++++ | ++++ |

+++++ = excellent ++++ = very good +++ = good ++ = adequate + = inadequate - = poor

① Lithium Ion batteries (LIB)

Lithium ion batteries have a high energy density and are perfect for cyclic applications. They offer savings of up to 70% in volume and weight compared to traditional lead-acid batteries, with three times as many charging cycles (2000 full cycles).



Another major benefit of the Mastervolt Li-ion battery is that it is equipped with a Battery Management System (BMS), which automatically compensates for any imbalance between the cells. This guarantees you a constant high capacity and longer battery lifespan. The new Lithium Ion Ultra series now includes integrated battery monitoring.

② Gel batteries

In gel batteries, the electrolyte is absorbed by a gel. This type of battery is entirely maintenance-free and has no gas formation with normal use. As no extra ventilation is required, gel batteries can be installed anywhere. They are ideal as a service battery and for cyclical use, and can be charged very quickly.



③ Traction batteries

This robust gel battery is designed for regular and deep discharging (1000 full cycles), and is ideal for large systems that require intensive use and a very long lifespan.



④ AGM battery

In AGM batteries, the electrolyte (mixture of water and sulphuric acid) is largely absorbed in glass fibre. This type of battery is entirely maintenance-free and there is no gas formation with normal use. Not requiring any ventilation, these batteries can be installed anywhere. Their construction gives a very fast discharge at very high currents so AGM batteries are ideal for systems that require high currents (for instance when starting an engine). The battery poles can be unscrewed and this type of battery can be combined with every standard battery terminal.



AGM Series

- U Ideal universal battery
- U Excellent starter function
- U Perfect upgrade for wet lead acid batteries
- U Same initial power surge in an AGM 12/90 Ah as in a 180 Ah wet lead-acid battery
- U Glass-fiber technology ensures low internal resistance
- U Use of thicker plates allows deep discharging
- U Also for cyclic use
- U Two year warranty



| | AGM 12/55 | AGM 12/70 | AGM 12/90 | AGM 12/130 | AGM 12/160 | AGM 12/225 | AGM 12/270 |
|--------------------------------------|---------------------------------|---------------------------------|-------------------------------|-----------------------------|---------------------------------|---------------------------------|----------------------------------|
| Item # | 62000550 | 62000700 | 62000900 | 62001300 | 62001600 | 62002250 | 62002700 |
| Nominal voltage | 12V | 12V | 12V | 12V | 12V | 12V | 12V |
| Capacity C20* | 55 Ah | 70 Ah | 90 Ah | 130 Ah | 160 Ah | 225 Ah | 270 Ah |
| CCA to DIN | 300A | 385A | 535A | 585A | 630A | 815A | 1000A |
| CCA to SAE | 480A | 615A | 850A | 935A | 1000A | 1300A | 1600A |
| Max. outer Dimensions** l x w x h | 10.1x5.2x8.2" 257x132x207 mm | 13.7x6.6x7.2" 348x167x183 mm | 13x6.8x9.3" 330x173x237 mm | 16.1x7x9" 410x177x228 mm | 19.1x6.7x9.6" 485x170x245 mm | 20.6x9.4x9.5" 522x240x241 mm | 20.6x10.6x9.6" 522x268x243 mm |
| Weight | 37.5 lbs / 17 kg | 47 lbs / 21.5 kg | 62 lbs / 28 kg | 83 lbs / 37.6 kg | 93 lbs / 42.3 kg | 140 lbs / 63.5 kg | 161 lbs / 73 kg |

* C20 = battery capacity at a discharge time of 20 hours, till 1.75V per cell. **Including terminals and grip handles

AGM SlimLine Series

- U Ideal universal battery
- U Good starter function
- U Compressed AGM technology
- U Saves up to 15% in volume
- U Saves up to 15% in weight
- U Miniscule footprint; 2x 200 Ah for a 200 Ah battery footprint
- U Two-year warranty



| | AGM-SL 12/150 | AGM-SL 12/200 |
|--------------------------------------|--------------------------------|------------------------------|
| Item # | 63001500 | 63001851 |
| Nominal voltage | 12V | 12V |
| Capacity C20* | 150 Ah | 200 Ah |
| CCA to DIN | 610A | 750A |
| CCA to SAE | 1020A | 1250A |
| Max. outer Dimensions** l x w x h | 22x4.3x11 in 560x110x280 mm | 22x5x11 in 560x126x280 mm |
| Weight | 89 lbs / 40.5 kg | 113 lbs / 51.2 kg |

* C20 = battery capacity at a discharge time of 20 hours, till 1.75V per cell.

**Including terminals and grip handles

AGM 6 Volt Series

- U Ideal solution for cyclic applications, such as electric propulsion, wheelchairs, golf carts, etc
- U Easy configuration of 12/24/48V battery terminals, with high capacity
- U Double pole for easy installation
- U No gas formation with normal use
- U Two-year warranty



| | AGM 6/260 | AGM 6/400 |
|--------------------------------------|------------------------------------|------------------------------------|
| Item # | 61002600 | 61004000 |
| Nominal voltage | 6V | 6V |
| Capacity C20* | 260 Ah | 400 Ah |
| Max. outer Dimensions** l x w x h | 11.6x7.1x11.7 in 295x180x298 mm | 11.6x7.1x16.9 in 295x180x428 mm |
| Weight | 77.8 lbs / 35.3 kg | 116.8 lbs / 53 kg |

* C20 = battery capacity at a discharge time of 20 hours, till 5.25V.

**Including terminals and grip handles

Batteries, Chargers and Accessories: MVG Batteries

MVG Gel Series

- UPerfect service battery for medium and large 12V and 24V systems
- UExtremely long lifespan
- UNo gas formation with normal use
- UFast recharge, high charge current possible
- UFor intensive cycle use with a high number of charge/discharge cycles
- UVery low self discharge
- UTwo-year warranty



| | MVG 12/25 | MVG 12/55 | MVG 12/85 | MVG 12/120 | MVG 12/140 | MVG 12/200 |
|--------------------------------|--------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| Item # | 64000250 | 64000550 | 64000850 | 64001200 | 64001400 | 64002000 |
| Nominal voltage | 12V | 12V | 12V | 12V | 12V | 12V |
| Capacity C20* | 25 Ah | 55 Ah | 85 Ah | 120 Ah | 140 Ah | 200 Ah |
| CCA to DIN | 110A | 230A | 270A | 450A | 540A | 630A |
| CCA to SAE | 175A | 380A | 450A | 760A | 920A | 1100A |
| Max. outer Dimensions** lwxwxh | 6.6x6.9x5 in 167x176x126 mm | 10.3x5.4x9 in 261x136x230 mm | 13x6.7x9.3 in 330x171x236 mm | 20.2x7.4x8.8 in 513x189x223 mm | 20.2x8.8x8.8 in 513x223x223 mm | 20.4x10.8x9.4 in 518x274x238 mm |
| Weight | 21.2 lbs / 9.6 kg | 41.9 lbs / 19 kg | 71.9 lbs / 32.6 kg | 90.4 lbs / 41 kg | 108 lbs / 49 kg | 154.3 lbs / 70 kg |

* C20 = battery capacity at a discharge time of 20 hours, till 10.5V. **Including terminals and grip handles



MVSV 2 Volt Gel Series

- U Long lifespan
- U Many charging and discharging cycles
- U Charges quickly
- U Extremely sustainable battery for large installations
- U Robust build for longer lifespan
- U Deep discharging without problems
- U Can be installed horizontally or vertically
- U Seven-year warranty (pro rate)



| | MVSV 280 | MVSV 420 | MVSV 500 | MVSV 580 | MVSV 750 | MVSV 1000 |
|-----------------------------------|---------------------------------|---------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Item # | 68000280 | 68000420 | 68000500 | 68000580 | 68000750 | 68001000 |
| Nominal voltage | 2V | 2V | 2V | 2V | 2V | 2V |
| Capacity C10* | 280 Ah | 420 Ah | 500 Ah | 580 Ah | 750 Ah | 1000 Ah |
| Max. outer Dimensions** l x w x h | 5"x8.2"x15.7" 126x208x399 mm | 5"x8.2"x20.3" 126x208x515 mm | 5.8"x8.2"x20.3" 147x208x515mm | 6.6"x8.2"x20.3" 168x208x515 mm | 5.8"x8.2"x27.2" 147x208x690 mm | 8.3"x7.6"x27.2" 212x193x690 mm |
| Weight | 23 kg / 50.7 lbs | 30 kg / 66.1 lbs | 35 kg / 77.2 lbs | 39 kg / 86 lbs | 49 kg / 108 lbs | 66 kg / 146 lbs |

* C10 = battery capacity at a discharge time of 10 hours, till 1.80V per cell. **Including terminals and grip handles



| | MVSV 1250 | MVSV 1500 | MVSV 1651 | MVSV 2200 | MVSV 2700 |
|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Item # | 68001250 | 68001500 | 68001651 | 68002200 | 68002700 |
| Nominal voltage | 2V | 2V | 2V | 2V | 2V |
| Capacity C10* | 1250 Ah | 1500 Ah | 1650 Ah | 2200 Ah | 2700 Ah |
| Max. outer Dimensions** l x w x h | 8.3"x9.3"x27.2" 212x235x690 mm | 8.3"x10.9"x27.2" 212x277x690 mm | 8.3"x10.9"x30.0" 211x276x762 mm | 8.5"x15.7"x32.1" 216x400x816 mm | 8.4"x19.3"x32.1" 214x489x816 mm |
| Weight | 80 kg / 176 lbs | 95 kg / 209 lbs | 115 kg / 254 lbs | 160 kg / 353 lbs | 198 kg / 437 lbs |

* C10 = battery capacity at a discharge time of 10 hours, till 1.80V per cell. **Including terminals and grip handles

Lithium Ion Ultra Series Battery



Having perfected the legendary Lithium Ion battery in a few key areas, Mastervolt has developed an unrivalled 5000 and 2500 Wh powerhouse. The MLI Ultra has an ultra-long lifespan that offers over 2000 cycles; a recharge time of less than an hour; active cell balancing for efficient and safe use of the eight Li-ion cells; and integrated battery monitoring to further simplify your system. What's more, the Ultra communicates directly with your Mastervolt battery charger via MasterBus to ensure the best possible recharging. Add in the fact that it takes up 70% less space and weight compared to lead acid batteries, and you'll see why this battery is the ultimate choice.



- UHighly advanced technology
- UMultifunctional battery of 5 kWh and 2.5 kWh
- USaves up to 70% in space
- USaves up to 70% in weight
- UThree times the lifespan of traditional batteries (2000 cycles)
- UUltra-fast charging and discharging
- UHigh efficiency
- UMasterBus communication with every Mastervolt battery charger
- UIntegrated Battery Management System (BMS)
- UCommon-rail technology optimizes series connection
- USafest Lithium Ion technology available
- UIntegrated battery monitoring

2 YEAR WARRANTY

| | NEW | | |
|----------------------------------|-----------------------------------|-------------------------------|-------------------------------|
| | MLI Ultra 12/2500 | MLI Ultra 12/5000 | MLI Ultra 24/5000 |
| Item # | 66012500 | 66015000 | 66025000 |
| Nom. battery voltage | 13.25 V | 13.25 V | 26.5 V |
| Battery capacity range | 180 Ah | 360 Ah | 180 Ah |
| Nom. battery power | 2500 Wh | 5000 Wh | 5000 Wh |
| Technology | LiFePO4 | LiFePO4 | LiFePO4 |
| Battery monitoring | integrated | integrated | integrated |
| Battery terminals | M8 | M8 | M8 |
| Common-rail technology | up to 2 batteries in series | up to 2 batteries in series | up to 2 batteries in series |
| Switch off relays controls | integrated | integrated | integrated |
| MasterBus compatible | yes | yes | yes |
| Max. outer dimensions, l x w x h | 13.35"x7.83"x13" / 339x199x355 mm | 24.5"x8"x14" / 622x197x355 mm | 24.5"x8"x14" / 622x197x355 mm |
| Weight | 63.93 lbs / 29 kg | 123.5 lbs / 56 kg | 123.5 lbs / 56 kg |





Ease of use is ease of comfort. We understand that you want to enjoy your peace and freedom without a care in the world. From busbars to battery monitors, from switch panels to intelligent digital switching systems, Maringo components and Mastervolt systems support your industrial needs while requiring minimum attention.

Any system is only as strong as its weakest link so in order to build a strong foundation for your electrical system our distribution products are solidly engineered utilizing best quality materials to

withstand the demands imposed by a harsh industrial environment. Whether it's the use of ultra flexible tinned copper wire, or high temperature plastics in battery switch and busbar ranges, the result is a robust backbone for your electrical system, and your peace of mind.

The complete system builds on this backbone, with world leading options for control and monitoring. Conventional switch and circuit breaker panels provide installation options for wet or dry areas.



701

Contour Battery Master Switch

This switch offers a number of unique features, the highlight being the patented Contour Locking System, allowing it to be a stand alone unit, or locked together with other switches.

- UFeatures a control knob which can be removed by switching to a counter-clockwise 45° position. The control knob also features an interchangeable labeling system allowing a full range of applications
- UThree removable side plates on sides for access of up to 1/0 cables plus a rear cover insulating the rear terminals against any short circuits
- UCan be either surface or recess mounted by cutting a 2.1" (52 mm) hole
- UAvailable with house knob (OEM # 701B-HB) or with chassis knob (OEM # 701B-CH)



701S

Battery Selector Switch

The 701S is the most compact selector switch available on the market. It has the same dimensions as the 701 and includes the same removable side plates and back cover. While BEP recommends isolated battery systems as outlined with our distribution clusters, the 701S offers a simple economical way of separating two batteries.

Please note selector switches will not separate electronics from harmful engine starting spikes.



700

Easy Battery Switch

Created for installations where switches need to be recessed through varying thicknesses of panels. It achieves this through an easily removable threaded ring allowing for panel thicknesses up to 3/4" (19 mm). It uses the same features as the 701 with the removable key 45° past the off position, labelled handle and a removable back cover covering exposed terminals.

The switch can also be surface mounted offering a unique style compared to other switches available on the market.

The 700 Easy Battery switch can easily be retro-fitted in place of most European post and lever type switches.

Now molded in high temperature, fiber reinforced plastics.

BEP Battery Switch Test

Procedures (UL 1107) Continuous (1 hour), intermittent (5 minutes) & Cranking (engine starting ≤ 10 seconds). The test is to determine the maximum current the switch can handle for the stated time, without the rear terminals exceeding 100°C (212°F) above the ambient temperature. The continuous and intermittent ratings are tested at 110% of specified ratings. All BEP switches are tested Independently to this specification by a 3rd party laboratory.

Specifications - All recessed or surface mount, tin-plated copper studs & nuts, ignition-protected

| Item # | OEM # | in LxWxH | mm LxWxH | Rating (A DC) | | | Voltage (V DC) | Operation | Stud size Studs x (in/mm) |
|--------|--------|----------------|--------------|---------------|-------|-------|-------------------|--------------|------------------------------|
| | | | | Cont | Inter | Crank | | | |
| 700 | 700B | 2.7"x2.7"x4.3" | 68x68x110 mm | 275 | 455 | 1250 | 48 | On/Off | 2 x (3/8" / 10 mm) |
| 701 | 701B | 2.75"x2.75"x3" | 69x69x75 mm | 275 | 455 | 1250 | 48 | On/Off | 2 x (3/8" / 10 mm) |
| 701S | 701S-B | 2.75"x2.75"x3" | 69x69x75 mm | 200 | 300 | 1000 | 48 | 1-2-Both-Off | 3 x (5/16" / 8 mm) |

Panel-Mounted Switches

Designed specifically for panel mount applications. This range gives a very compact, versatile solution.

- U Compact, lightweight
- U Removable key on 701-PM
- U Countersunk recesses for surface mount application
- U Standard 2-1/16" (52 mm) hole cut out (same as standard gauge hole)
- U Inside: captive inserts for 3/16" (4.8 mm) nuts; full access for cables - no restrictions
- U Standard interchangeable label system

Now molded in high temperature, fiber reinforced plastics.



Mounting Plates

Single recessed. Supplied with all the mounting hardware and come in a matching grey finish.

| For | Item # | LxW |
|-----|--------|------------------------|
| 701 | BSP-1 | 3.75"x3.75" / 95x95 mm |

Specifications

| Item # | OEM # | in LxWxH | mm LxWxH | Rating (A DC) | | | Voltage (V DC) | Operation | Stud size Studs x (in/mm) |
|---------|-----------|----------------|-------------|---------------|-------|-------|-------------------|--------------|------------------------------|
| | | | | Cont | Inter | Crank | | | |
| 701-PM | 701-PM-B | 2.75"x2.75"x3" | 69x69x67 mm | 275 | 455 | 1250 | 48 | On/Off | 2 x (3/8" / 10 mm) |
| 701S-PM | 701S-PM-B | 2.75"x2.75"x3" | 69x69x67 mm | 200 | 300 | 1000 | 48 | 1-2-Both-Off | 3 x (5/16" / 8 mm) |

As shown in Contour Connect panels



701S-PM



701-PM





Pro Installer Series Battery Switches

A new range of premium quality battery switches that feature an industry standard mounting footprint. This enables easy mounting into existing or new installations. Improved design and ergonomics provide clear intuitive operation, while attention to all aspects of switch function and use has created superior installation options, high power capacity and improved reliability.



770

NEW Pro Installer On/Off Battery Switch

A powerful new generation battery switch with outstanding performance and features for both the installer, and end user. Three mounting options: surface, rear panel, and front panel mounting, plus optimized cable access makes installation a breeze. Pro Installer switches set the new benchmark with outstanding ergonomics, intuitive look/feel, and are engineered from the best materials to withstand a harsh industrial environment.



770-DP

NEW Pro Installer Double Pole Battery Switch

Same industry standard mounting with On/Off operation. Used where positive and negative supplies must be isolated at the same time.

SAFETY NOTE: BEP does not recommend this for switching house and start battery systems at the same time, for safety reasons. You may need to isolate your engine battery in an emergency, but not your house battery which typically powers the communications. For this application please use the new Dual Bank Control Switch (772-DBC) or one of BEP's battery switch clusters.

Note: 770-DP is replacing 720-DP



772-DBC

NEW Pro Installer Dual Bank Control Switch

This innovative (Patent Pending) switch combines the functions of 3 battery switches into one (House, Start, and Emergency Parallel) to intuitively manage 2 battery banks and 2 loads. A unique safety position isolates one load e.g. House On Start Off in case of engine malfunction, so an emergency radio call can still be made. Significant savings in both space and installation cost can be made, without compromising functionality or safety.

Specifications

| Item # | OEM # | in LxWxH | mm LxWxH | Rating (A DC) | | | Voltage (V DC) | Operation | Stud Detail |
|---------|-----------|-------------------|-------------|---------------|--------|---------|-------------------|-----------------------|-------------------|
| | | | | Cont | Inter | Crank | | | |
| 770 | 770-B | 3.85"x3.85"x3.62" | 98x98x92 mm | 400 | 600 | 1500 | 48 | On/Off | 2x (3/8" / 10 mm) |
| 770-DP | 770-DP-B | 3.85"x3.85"x3.62" | 98x98x92 mm | 2x 400 | 2x 600 | 2x 1500 | 48 | On/Off (x2) | 4x (3/8" / 10 mm) |
| 771-S | 771-S-B | 3.85"x3.85"x3.62" | 98x98x92 mm | 400 | 600 | 1500 | 48 | 1-2-Both-Off | 3x (3/8" / 10 mm) |
| 771-SFD | 771-SFD-B | 3.85"x3.85"x3.62" | 98x98x92 mm | 400 | 600 | 1500 | 48 | 1-2-Both-Off | 3x (3/8" / 10 mm) |
| 772-DBC | 772-DBC-B | 3.85"x3.85"x3.62" | 98x98x92 mm | 2x 400 | 2x 600 | 2x 1500 | 48 | 1, 1/2, Parallel, Off | 4x (3/8" / 10 mm) |

NEW Pro Installer Selector (771-S) & Selector with Field Disconnect (771-SFD) Battery Switches

Power requirements for industrial applications have continued to increase. These two Selector switches offer high power capacity (400 amps continuous), the ability to easily fit doubled cables, and conform to the industry standard mounting footprint.

Please note selector switches will not separate electronics from harmful engine starting spikes.

Specifications on previous page.

Note: 771-S is replacing 721

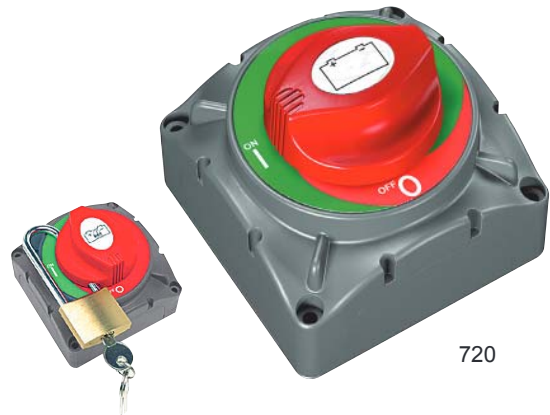


771-S

Heavy-duty Battery Switch

The 720 Heavy-duty Battery Switch fits into the same contour lock system as used on the battery distribution system. Rated at 600A continuous and 2500A cranking.

As with the 701, the 720 can be recessed or surface mounted. The 720 uses the same style of self cleaning sliding contact as used in the 701 and uses the same label sheet.



720

Specifications

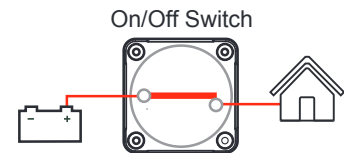
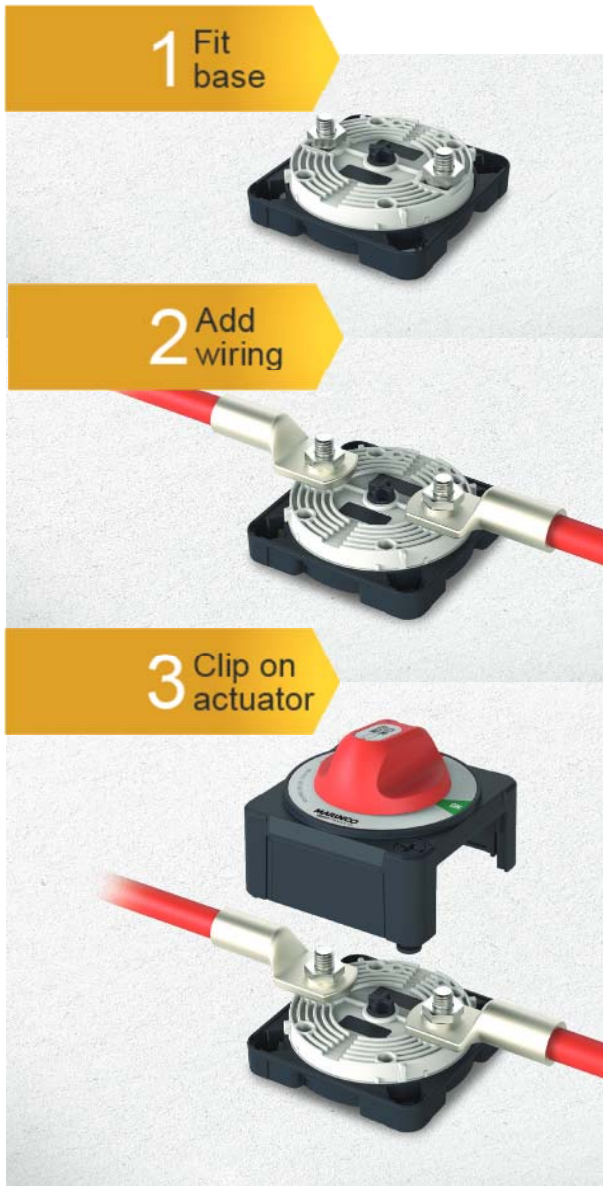
| Item # | OEM # | in LxWxH | mm LxWxH | Rating (A DC) | | | Voltage (V DC) | Operation | Stud Detail |
|--------|-------|-------------|---------------|---------------|-------|-------|-------------------|-----------|-------------------|
| | | | | Cont | Inter | Crank | | | |
| 720 | 720B | 4"x4"x3.5" | 102x102x90 mm | 600 | 800 | 2500 | 48 | On/Off | 2x (1/2" / 12 mm) |



EZ -Mount Battery Switches

Same great switch, even easier to install. These revolutionary battery switches allow you to wire from the front making cabling easy and accessible. With their shared interconnection height, EZ-Mount battery switches "cluster" directly with the Pro Installer Busbar Range, resulting in the fastest, most compact installations. All ratings, footprints and features of the EZ-Mount switch match the high quality of our standard switches.

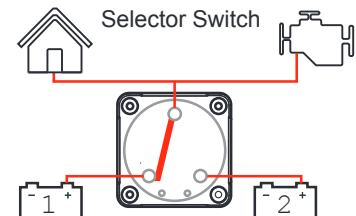
The EZ-Mount is as easy as 1, 2, 3.



770-EZ

NEW Pro Installer EZ-Mount On/Off Battery Switch

A powerful new generation battery switch with outstanding performance and features for both the installer, and end user. Optimized cable access makes installation a breeze. Pro Installer switches set the new benchmark with outstanding ergonomics, intuitive look/feel, and are engineered from the finest materials to withstand harsh industrial environments.



771-S-EZ

NEW Pro Installer EZ-Mount Selector Battery Switch

Power requirements for industrial applications have continued to increase. This selector switch offers high power capacity (400 amps continuous), the ability to easily fit doubled cables, and conform to the industry standard mounting footprint (Guest, Perko, Blue Sea).

Please note selector switches will not separate electronics from harmful engine starting spikes.

Specifications

| Item # | OEM # | in LxWxH | mm LxWxH | Rating (A DC) | | | Voltage (V DC) | Operation | Stud Detail |
|----------|------------|-------------------|-------------|---------------|-------|-------|-------------------|--------------|-------------------|
| | | | | Cont | Inter | Crank | | | |
| 770-EZ | 770-EZ-B | 3.85"x3.85"x3.62" | 98x98x92 mm | 400 | 600 | 1500 | 12-48 | On/Off | 2x (3/8" / 10 mm) |
| 771-S-EZ | 771-S-EZ-B | 3.85"x3.85"x3.62" | 98x98x92 mm | 400 | 600 | 1500 | 12-48 | 1-2-Both-Off | 3x (3/8" / 10 mm) |

DVSR: Dual Battery Charging Made Easy

The Digital Voltage Sensing Relay (DVSR) allows the charging of a second battery bank from any single charging source. When the voltage on the charged bank rises sufficiently, the DVSR engages allowing the 2nd battery bank to charge. When charging stops and voltage falls, the DVSR automatically isolates the battery banks, ensuring that engine start batteries are kept fully charged. Digital circuitry provides superior reliability and extremely low power consumption.

U Safely charge two or more independent battery banks from one charge source (alternator, battery charger)

U Charges engine starting batteries before combining auxiliary bank for charging

U Protects start batteries from becoming flattened by domestic loads

U Isolates electronics from harmful electrical surges from starter motors

U Simple to install 3 wire connection, leaves alternator wiring intact

U No volt drop vs. diode isolators

U Ignition protected

U Surface or panel mountable

2011 Digital enhancements:

U Multi voltage, auto selects between 12 and 24V DC operation

U Digital circuits provide very low power consumption and enhanced performance

U Remote sensing circuitry allows optional connection from ignition switch, provides same functionality as single sense VSR and zero power consumption when engine is off

U Zero stand by current draw when remote sensing circuit utilized with storage mode switch (switch in open position)

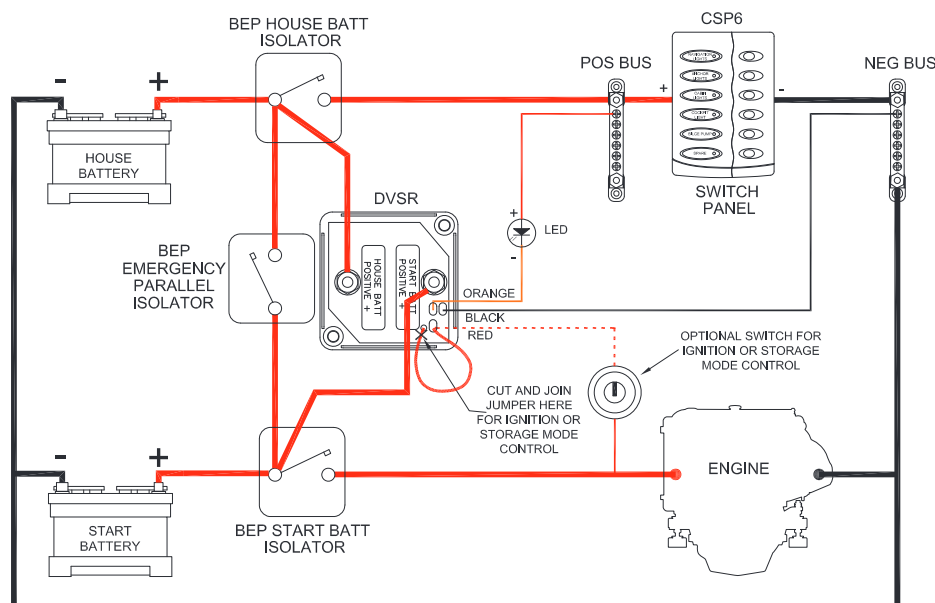
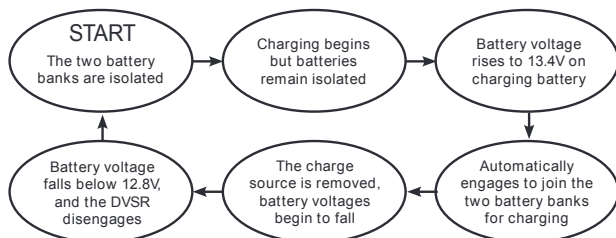
U Remote status LED output option



Replaces previous models 710-125A and 710-125A-DS

| Item # | OEM # | in LxWxH | mm LxWxH | Volts (V) | Rating (A) Continuous | Rating (A) Intermittent | Engages (V DC) | Disengages (V DC) |
|----------|------------|----------------|-------------|-----------|-----------------------|-------------------------|----------------|-------------------|
| 710-140A | 710-140A-B | 2.75"x2.75"x2" | 69x69x50 mm | 12/24 | 125 | 140 | 13.4/26.8 | 12.8/25.6 |

DVSR Operation (shown for 12V system)



Wiring diagrams indicative of installation only.

Batteries, Chargers and Accessories: Battery Switches

Universal Mount Switches

- U Longer stud lengths for improved assembly and easier cable routing
- UBuilt with heavy-duty copper sweep contacts to ensure positive circuit control
- URugged internal components protected by a tough, impact resistant polycarbonate housing that is impervious to the elements
- UCable Lug Size: 3/8"
- UDimensions: 5.0"x2.75"

Selector Switch w/out AFD
Continuous amps: 230



Item # 2111A



OEM # 2111A-B

Selector Switch with AFD
Continuous amps: 230
Momentary amps: 345



Item # 2110A



OEM # 2110A-B

On/Off Switch w/out AFD
Continuous amps: 230
Momentary amps: 345



Item # 2112A



OEM # 2112A-B

Battery Selector Switches

- UPolycarbonate case
- UFor 6, 12, 24 or 36V systems
- USurface mount
- UCable Lug Size: 3/8"
- UDimensions: 5.50"x2.63"

Selector Switch with AFD
Continuous amps: 230
Momentary amps: 345



Item # 2100
OEM # 2100-B

Selector Switch w/out AFD
Continuous amps: 230
Momentary amps: 345



Item # 2101
OEM # 2101-B

On/Off Switch w/out AFD
Continuous amps: 230
Momentary amps: 345



Item # 2102
OEM # 2102-B
OEM # 2102-3-B black

Heavy-duty Diesel Power Battery Switches

- UFor 6, 12, 24 or 36V systems
- UBuilt with heavy-duty copper sweep contacts to ensure positive circuit control
- URugged internal components protected by a tough, impact resistant polycarbonate housing that is impervious to the elements
- UFeatures Alternator Field Disconnect (AFD) allowing selection of any position, including [off] without damage to alternator or electrical system
- UCable lug size: 1/2"
- U2304A and 2304A-B have 3 studs

Heavy-duty On/Off Switch
Continuous amps: 450
Momentary amps: 800



Item # 2303A



OEM # 2303A-B

Extra-duty On/Off Switch
Continuous amps: 600
Momentary amps: 1000



Item # 2304A



OEM # 2304A-B

Battery Selector Switch
Continuous amps: 360
Momentary amps: 600

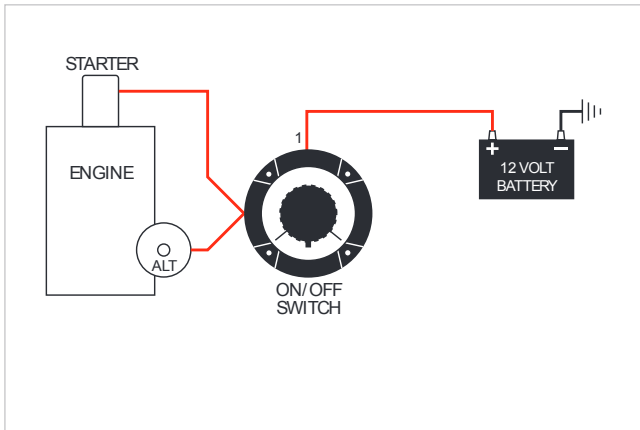


Item # 2300A



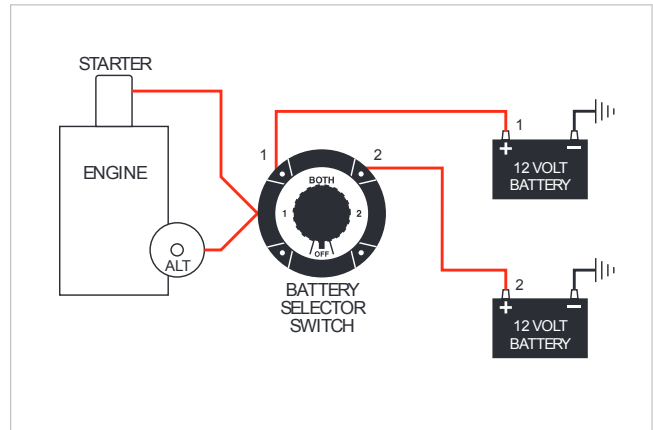
OEM # 2300A-B

As more and more electronics and electrical accessories are added to your vehicle or industrial application, the use of multi-batteries becomes a necessity. Guest components allow you to set up the system (from simple to complex) for your application. The following diagrams are for use in identifying and designing the right system for your needs.



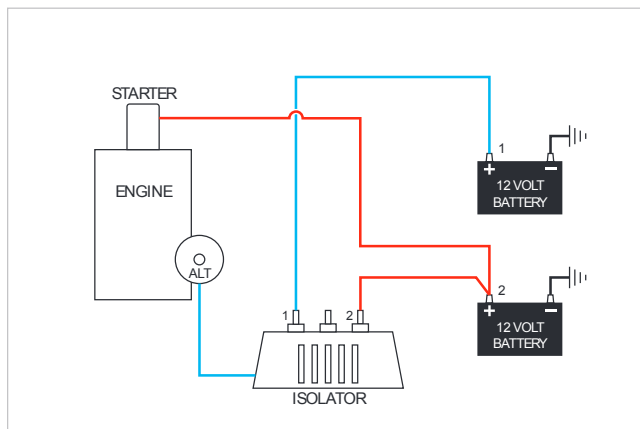
Single battery

Installation: To shut off all power at source. Recommended installation by approved authorities.



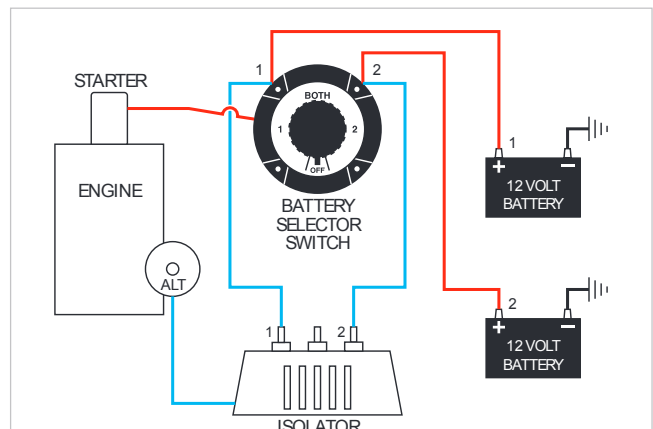
Two battery with out isolator

Installation: To select a starter battery and service battery. Manually isolates each battery, parallels both batteries for emergency start, master disconnect, manually selects batteries for charging.



Two battery with isolator

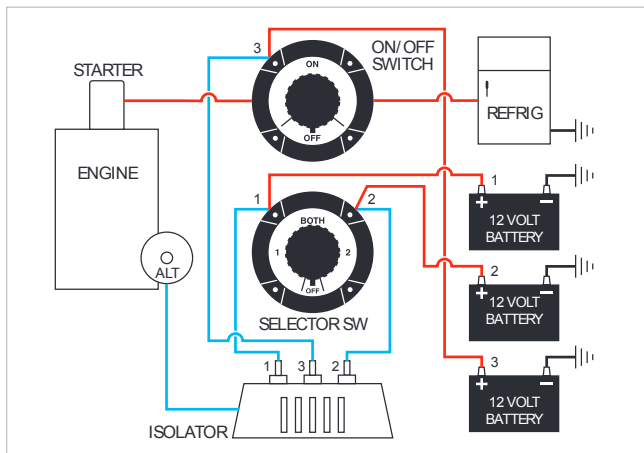
Installation: Isolator automatically selects lower charged battery to be charged first. Full battery can't discharge to drained battery. Dedicated system, no flexibility, no emergency parallel or disconnect function.



Two battery with emergency parallel

Installation: An isolator automatically isolates each battery, lower charged battery will automatically be charged first. Two different size batteries can be used, larger for services, smaller for engine cranking. Switch selects usage, master disconnect, emergency parallel function.

Batteries, Chargers and Accessories: Battery Switch Installations

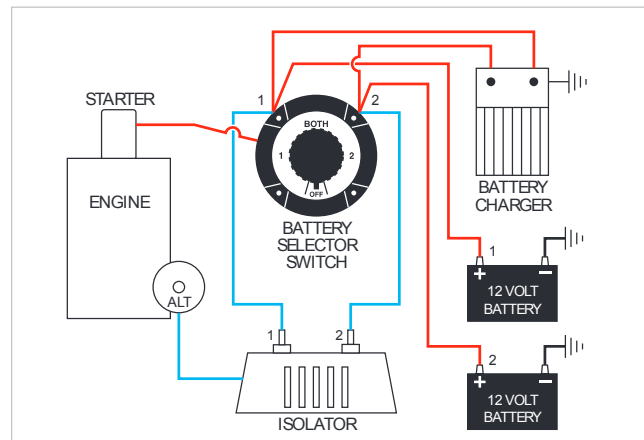


One battery selector switch, one On/Off selector switch automatic battery isolation and automatically charges three batteries

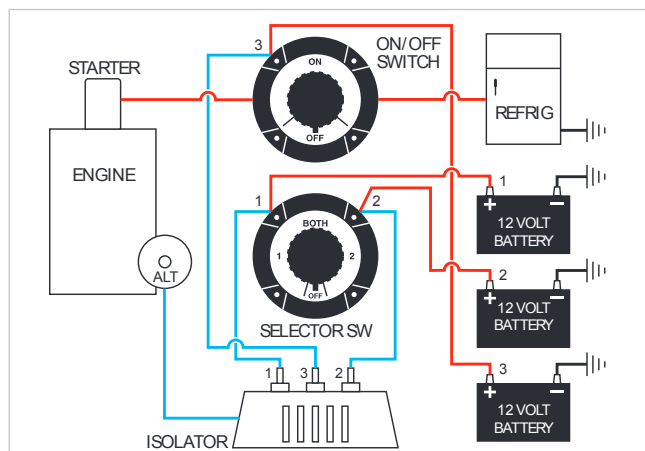
Installation: Third battery isolated from other circuits. All batteries being automatically charged while running through isolator. To be used for refrigeration or other heavy load devices. Isolator protects other batteries.

Switch selector usage:

1. Master disconnect
2. Emergency parallel function



Adding automatic battery charger/converters to system
Installation: Multi-bank charger built in isolator which will automatically charge lower battery.



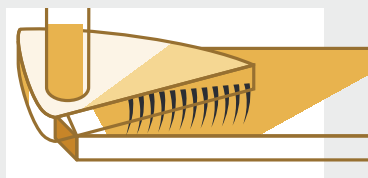
Three batteries, one battery selector switch, one On/Off or selector switch, two alternators, one isolator

Installation: Isolator separates both alternators so both alternators will charge simultaneously. Automatically charges lowest battery first. All batteries can be used for start, third battery, or source.

Alternator Field Disconnect (AFD)

Allows selection of any position, including "Off," without damage to alternator or electrical system. AFD is required on some electrical systems.

- U Heavy-duty copper sweep contacts
- U Positive click-stop on all positions
- U Make before break contacts allow selection of all positions except "Off" while engine is running
- U New design is easy to retrofit into existing hole patterns
- U Use with 6, 12, 24 or 36V systems
- U Built-in skirt protects connections
- U Surface or rear panel mounting



Exclusive "at 360" sweep contact design provides up to 60% more contact area than other switch designs.

Battery Isolators

Marinco offers a comprehensive line of Mastervolt battery isolators to compliment a complete 12 or 24V system. Battery isolators are an essential part of any DC system that increases battery lifespan, protects against battery discharge, and allows isolated charging of multiple battery banks.



BI Battery Isolators

Mastervolt's BI battery isolators are based on conventional diode technology. The diode voltage drop (ca. 0.6V) can be compensated for by adapting the output voltage of the connected charger. Mastervolt battery chargers and Alpha Pro alternator regulators come as standard with automatic compensation for voltage drops.



| | BI 702-S | BI 703 | BI 1202-S | BI 1203-S |
|------------------------|-------------------|------------------|-------------------|------------------|
| Item # | 83007021 | 83007030 | 83012021 | 83012031 |
| Max. output charger | 25/50A | 25/50A | 80A | 80A |
| Max. output alternator | 70A | 70A | 120A | 120A |
| Compensation diode | yes | no | yes | yes |
| Dimensions, hxwx | 6.2"x5.5"x3.2" | 8.2"x5.5"x3.2" | 8.2"x5.5"x3.2" | 8.2"x5.5"x3.2" |
| | 157x140x80 mm | 207x140x80 mm | 207x140x80 mm | 207x140x80 mm |
| Weight | 1.3 lbs / 0.58 kg | 2.4 lbs / 1.1 kg | 2.65 lbs / 1.2 kg | 2.9 lbs / 1.3 kg |
| # of battery banks | 2 | 3 | 2 | 3 |

Battery Watch

The Battery Watch is an essential element of any well-equipped battery system, offering you a 1.3 lb electronic watchdog that ensures a much longer lifespan for your batteries. The unit switches off loads when batteries are nearly empty, to keep your batteries in optimum condition. LED lights provide a clear read out and the undervoltage can be set using DIP switches.



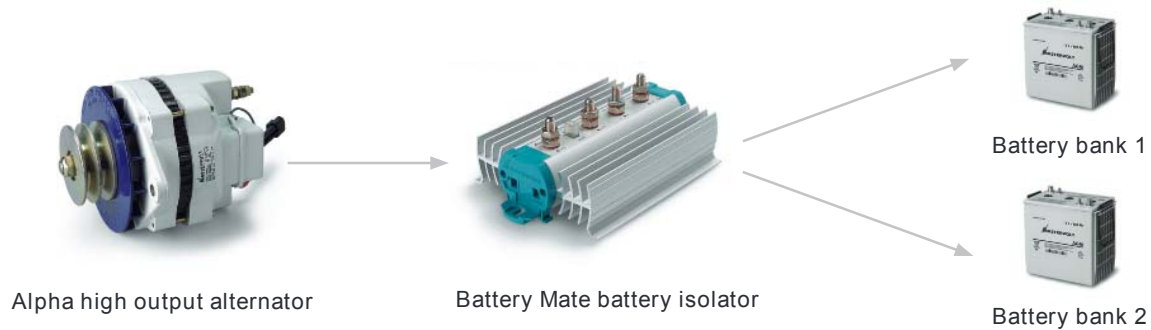
| | Battery Watch |
|------------------------------|------------------|
| Item # | 83200150 |
| Max. load | 150A |
| Input voltage | 8-32V DC |
| Switch off under voltage 12V | 9-12V DC |
| Switch off under voltage 24V | 18-24V DC |
| Dimensions, hxwx | 6.2"x5.5"x3.2" |
| | 157x140x80 mm |
| Weight | 1.3 lbs / 0.6 kg |

Battery Isolators

- UOptimized heat sink design for maximum performance
 - UMinimized voltage drop across isolation barrier using Schottky type diodes
 - UEach output individually capable of carrying the full alternator load
 - UFixed cable posts for secure connections
 - UFully potted, marine grade construction
 - UWaterproof components for harsh environment performance - year after year
- NOTE: If used on a 24V system, vehicle must be equipped with 24V DC alternator



| Item # | 2501 | 2502 | 2504 | 2532 |
|------------------------|----------------|---------------|----------------|---------------|
| Max. output alternator | 70A | 70A | 70A | 120A |
| Operation | 12-48V | 12-48V | 12-48V | 12-48V |
| Dimensions | 5.4"x4.5"x2.6" | 10"x5.5"x3.7" | 5.4"x4.5"x2.6" | 15"x5.5"x3.7" |
| # of alternators | 1 | 2 | 1 | 2 |
| # of battery banks | 2 | 2 | 3 | 3 |



Battery Mate

The Battery Mate is compatible with any type of alternator/battery charger, in both existing and new systems. As the voltage loss between the alternator and battery is negligible, the Battery Mate performs far better than conventional battery isolators. This ensures fast and complete charging of your batteries without having to make additional adjustments to the alternator.



| | Battery Mate IG 1602 | Battery Mate IG 1603 | Battery Mate IG 2503 |
|------------------------|---------------------------------|---------------------------------|---------------------------------|
| Item # | 83116025 | 83116035 | 83125035 |
| Max. output charger | 120A | 120A | 200A |
| Max. output alternator | 160A | 160A | 250A |
| Dimensions, hwxwx | 8.2"x5.5"x3.2" 207x140x80 mm | 8.2"x5.5"x3.2" 207x140x80 mm | 8.2"x5.5"x3.2" 207x140x80 mm |
| Weight | 2.2 lbs / 1 kg | 2.2 lbs / 1 kg | 2.2 lbs / 1 kg |
| # of battery banks | 2 | 3 | 3 |

NEW Heavy-duty Busbars

Pro Installer Heavy Duty Busbars provide a robust means to connect (bus) together the multitude large cables found in modern electrical installations. These offer unrivaled flexibility to meet the requirements of any installation, saving significant cost and space.

- Specifications:
- U4 Stud-500A busbar: 8 mm (5/16") stainless steel studs
- U3, 5, and 8 stud-650A busbars: 10 mm (3/8") stainless steel studs
- UStuds treated with anti-seize lubricant
- U50 VDC
- UTinned CDA102 Copper conductors
- UStainless steel studs, washers and nuts for longevity in harsh industrial environments
- UGenerous stud lengths, metric threads

| Description | Item # | Footprint* |
|---------------|--------------|------------|
| 3 Stud Busbar | 777-BB3S-650 | 1 x |
| 4 Stud Busbar | 777-BB4S-500 | 1 x |
| 5 Stud Busbar | 777-BB5S-650 | 1.5 x |
| 8 Stud Busbar | 777-BB8S-650 | 2.5 x |

* See page 64 for Footprint details



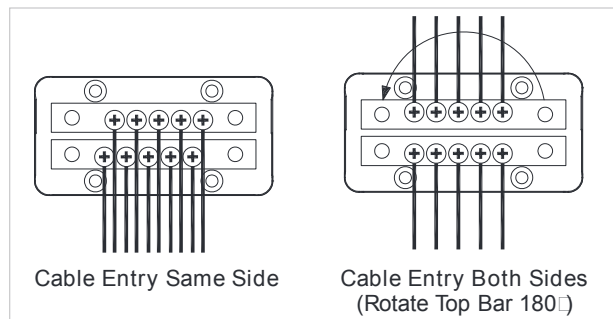
NEW Z Busbars

Marinco BEP Products have created a completely new concept for small cable termination with the Z-Bar range. These busbars maximize power density by utilizing high and low level bars to optimize cable runs, saving even more installation space.

- Specifications:
- U10 Way and 18 Way versions
- U4x 6 mm (1/4") studs with anti-seize lubricant
- U4mm (5/32") terminals with captive lock washers
- U200A maximum per bar (2x 200A)
- U50 VDC
- UTinned CDA102 Copper conductors
- UStainless steel studs, washers and nuts for longevity in harsh industrial environments
- UMetric threads

| Description | Item # | Footprint* |
|------------------|--------------|------------|
| 10 way, Z Busbar | 777-Z10W-200 | 1 x |
| 18 way, Z Busbar | 777-Z18W-200 | 1.5 x |

* See page 64 for Footprint details



NEW ANL Fuse Holders

These ANL fuseholders offer unparalleled circuit protection choice for both the installer and end-user. The innovative Through-Panel fuseholder (778-ANLTP) provides superior access for fuse inspection and replacement. Small electrical loads are catered to with the compact 778-ANL unit while additional cable security and highest capacity is provided by the 778-ANL-2S, featuring additional studs for separate clamping of cables.

Specifications:

- U Cable connection studs: Shared 8mm (5/16") on 778-ANL
- U 10mm (3/8") studs on 778-ANL-TP and 778-ANL-2S
- U Fuse mounting studs: 8mm (5/16")
- U Double washers allow any ANL fuse brand to be fitted
- U Fuse type: ANL or ANN (fast blow)
- U Swinging fuse style allows changing fuse without removal of fastening nuts
- U Amperage: determined by fuse sizing, 778-ANL: 35-300A, 778-ANL2S: 35-750A, 778-ANLTP, 35-500A
- U 50 VDC (or determined by fuse fitted)
- U Tinned CDA102 copper conductors 778-ANL-2S
- U Tinned CDA260 high conductivity brass conductors 778-ANLTP



See page 61 for ANL fuses.

| Description | Item # | Footprint* |
|--|-----------|------------|
| Fuseholder, ANL | 778-ANL | 1 x |
| Fuseholder, ANL with additional cable clamping studs | 778-ANL2S | 1.5 x |
| ANL Through Panel | 778-ANLTP | 1 x |

* See page 64 for Footprint details

NEW Class-T Fuse Holders

Class-T fusing provides the ultimate protection for high power circuits, and where extremely fast fuse blow characteristics are required. Modern battery technologies such as Mastervolt Lithium Ion or AGM are capable of very high short circuit currents which may be beyond the interrupt rating of standard circuit breakers and other types of fuse. Two sizes of Pro Installer Class-T Fuseholder are available which accommodate fuses from 225-400 Amps, and 450-600 Amps respectively.

Specifications:

- U Cable connection studs: 10 mm (3/8") studs
- U Fuse mounting studs: 10 mm (3/8") 225-400A holder, 12 mm (1/2") 450-600A holder
- U Fuse type: Class-T (JLLN / TJN / A3T)
- U Maximum amperage: Determined by fuse sizing, either 400A or 600A
- U 50 VDC
- U High temperature, fibre reinforced plastic base provides strength and chemical resistance
- U Clear polycarbonate cover
- U Tinned CDA102 Copper conductors
- U Stainless steel studs, washers and nuts for longevity in harsh industrial environments
- U Metric threads



See page 61 for Class T fuses.

| Description | Item # | Footprint* |
|------------------------------|-------------|------------|
| Fuseholder, Class-T 225-400A | 778-T2S-400 | 1.5 x |
| Fuseholder, Class-T 450-600A | 778-T2S-600 | 1.5 x |

* See page 64 for Footprint details



ANL Fuses

Use with:



UNew Pro Installer ANL Fuse Holders (page 56)

UANL Fuse Block below (Item # 607006)

Length: 3.23" (82 mm)

Width: 0.88" (22 mm)

Stud Clearance: 0.43" (11 mm)

| Rating (A) | Qty/ Pkg | Item # |
|------------|----------|----------|
| 40 | 1 | 77049040 |
| 50 | 1 | 77049050 |
| 63 | 1 | 77049063 |
| 80 | 1 | 77049080 |
| 100 | 1 | 77049100 |
| 125 | 1 | 77049125 |
| 160 | 1 | 77049160 |
| 175 | 1 | 77049175 |
| 200 | 1 | 77049200 |
| 250 | 1 | 77049250 |
| 300 | 1 | 77049300 |
| 355 | 1 | 77049355 |
| 400 | 1 | 77049400 |
| 425 | 1 | 77049425 |
| 500 | 1 | 77049500 |

NEW Heavy-duty ANL Fuses

Use with:



U5/16" (8 mm) mounting studs

UNew Pro Installer ANL Fuse Holders (page 60)

| Rating (A) | Qty/ Pkg | Item # |
|------------|----------|------------|
| 600 | 5 | FANL-600-B |
| 675 | 5 | FANL-675-B |
| 750 | 5 | FANL-750-B |



ANL Fuse Blocks

UGlass filled nylon base for durability.

UFits all ANL and ANN fuses up to 800 amps.

UUL approved

URating: 800 max amps

Item # 607006



Maxi-Blade Fuses

Fuses available: 30-80A

Interrupt capacity: 1000A DC

Maximum voltage: 32V DC

| Rating (A) | Qty/ Pkg | Item # | OEM # |
|------------|----------|--------------|----------|
| 30 | 1 | BFHD-30A/DSP | BFHD-30A |
| 40 | 1 | BFHD-40A/DSP | BFHD-40A |
| 50 | 1 | BFHD-50A/DSP | BFHD-50A |
| 60 | 1 | BFHD-60A/DSP | BFHD-60A |
| 70 | 1 | BFHD-70A/DSP | BFHD-70A |
| 80 | 1 | BFHD-80A/DSP | BFHD-80A |



Maxi Fuse Holder

An economical way of fusing heavy loads 30-80A. Ideal for battery charger outputs or mains feeds. 1/4" (6 mm) studs accept ring terminals and cables up to 25 mm² (4 gauge). Fuse is clamped between tinned brass clamps for positive connection. Covers enclose exposed terminals. 2.8"x2"x1.42" (71x53x36 mm)

Item # 702-MFH

OEM # 702-MFH-B



NEW Medium-duty Class T Fuses

Interrupt Capacity: 20,000A DC

Maximum voltage: 160V DC

Diameter: 1.34" (34 mm)

Length: 2.77" (70mm)

Use with:



UNew Pro Installer Class T Fuse Holders (page 60)

| Rating (A) | Qty/ Pkg | Item # |
|------------|----------|----------|
| 225 | 1 | FT-225-B |
| 250 | 1 | FT-250-B |
| 300 | 1 | FT-300-B |
| 350 | 1 | FT-350-B |
| 400 | 1 | FT-400-B |



NEW Heavy-duty Class T Fuses:

Interrupt Capacity: 20,000A DC

Maximum voltage: 160V DC

Diameter: 1.62" (41 mm)

Length: 3.03" (77mm)

Use with:



UNew Pro Installer Class T Fuse Holders (page 60)

| Rating (A) | Qty/ Pkg | Item # |
|------------|----------|----------|
| 450 | 1 | FT-450-B |
| 500 | 1 | FT-500-B |
| 600 | 1 | FT-600-B |

NEW Insulated Studs

Pro Installer Insulated studs are available in single and twin stud versions, featuring 8 mm (5/16") and 10 mm (3/8") variants. A double stud version with 10mm and 8mm studs is also included for extending cable lengths. The Power Tapping Plate single stud models provide convenient termination points for additional small cables. Pro Installer family features are replicated with these insulated studs, generous stud length, modular footprint, insulating covers with label recess and common interconnection height.

Specifications:

- U Power tapping plate: 4x 4 mm (5/16") terminals
- U Maximum current through power tapping plate: 50A per terminal (4x 50A maximum)
- U Note: no power passes through the stud so no amp rating is given
- U 50 VDC
- U High temperature, fibre reinforced plastic base provides strength and chemical resistance
- U Clear polycarbonate cover with snap-out extra cable access
- U Stainless steel studs, screws and nuts for longevity in harsh industrial environments
- U Insert moulded studs with metric threads
- U Double studs feature 'snap out' insulating partition, to allow linking of studs



IST-10MM-8MM



IST-8MM-1SPT



IST-10MM

| Description | Item # | Footprint* |
|--------------------------------------|---------------|------------|
| Single 8mm | IST-8MM-1S | 0.5 x |
| Double 8mm | IST-8MM-2S | 0.5 x |
| Double 10mm/8mm | IST-10MM-8MM | 0.5 x |
| Single 10mm | IST-10MM-1S | 0.5 x |
| Double 10mm | IST-10MM-2S | 0.5 x |
| Single 8mm with power Tapping Plate | IST-8MM-1SPT | 0.5 x |
| Single 10mm with power Tapping Plate | IST-10MM-1SPT | 0.5 x |

* See page 60 for Footprint details

Insulated Studs & Covers

- U Made with high temperature plastic bases
- U Stud covers push securely over the threaded stud covering
- U Dual studs ideal for +ve / -ve connections, branch circuits, windlass or inverter installations.
- U Covers supplied with display versions.



IS-6MM-1



IS-6MM-2

Studs

| Item # | OEM # | Stud Size | Polarity |
|---------------------|-----------|-------------------|----------|
| Single Studs | | | |
| IS-6MM-1R/DSP* | IS-6MM-1R | 1/4" / 6 mm | Positive |
| IS-6MM-1/DSP* | IS-6MM-1 | 1/4" / 6 mm | Negative |
| Dual Studs | | | |
| IS-6MM-2/DSP* | IS-6MM-2 | 2 x [1/4" / 6 mm] | |

*Item #s come with cover, OEM #s do not.

Covers

| Item # | Description |
|----------|----------------------|
| ISC-10R | Red positive 10 mm |
| ISC-10BK | Black negative 10 mm |
| ISC-6-2 | Double 6 mm |



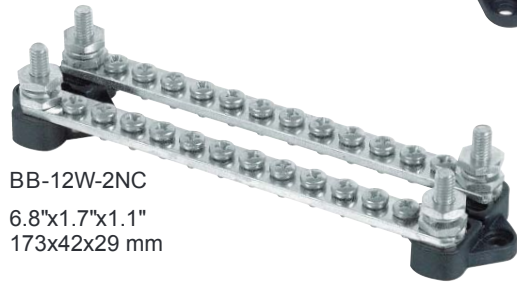
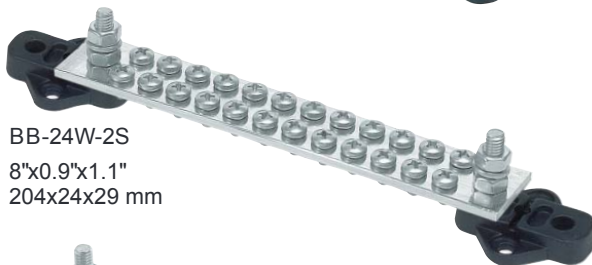
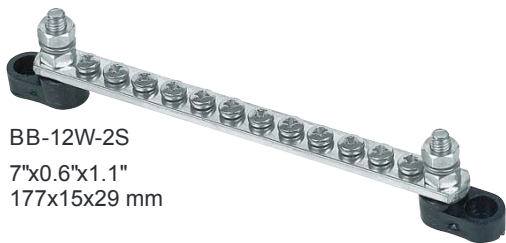
ISC-10BK



ISC-6-2

Bus Bars

- U Now with easy-fit covers with polarity ID
- U 5/32" (4 mm) stainless steel screws with shakeproof washers
- U 2 x 1/4" (6 mm) input studs
- U Tin-plated, brass-insulated mounting bases with recessed mounting holes to avoid accidental shorts on aluminum surfaces
- U Supplied standard with all BEP AC & DC control panels
- U Display pack versions supplied with cover



| Item # | OEM # | Bus Type | Output screws | Input studs | Rating (A) |
|----------------|------------|----------|---------------|---------------------|------------|
| BB-6W-2S/DSP | BB-6W-2S | Single | 6 | 2 | 100 |
| BB-12W-2S/DSP | BB-12W-2S | Single | 12 | 2 | 100 |
| BB-24W-2S/DSP | BB-24W-2S | Single | 24 | 2 | 150 |
| BB-12W-2NC/DSP | BB-12W-2NC | Double | 2 x 12 | 2 x 12 way | 100 |
| BB-4S-150A/DSP | □ | 4-way | 1 x 4 | 4 x 6 mm (1/4 stud) | 150 |

Bus Bar Covers

- U Flame-resistant flexible plastic
- U Color-coded for polarity
- U Unique push-on fit
- U Supplied standard with bus bars when ordered in display packs (for bulk packaging ordered separately)



Terminal Blocks

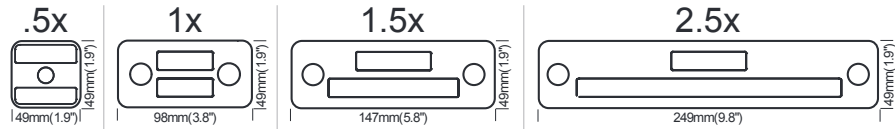
Ideal for isolated connections up to 30A. Suitable for connecting tails from AC and DC panels.
Base material: Phenolic; Current rating 30A; Max. voltage rating: 300V AC/DC; Screw size: 0.25" (6.3 mm)

| Item # | Description |
|------------|----------------|
| TB-118-6P | 6 connections |
| TB-118-10P | 10 connections |



Batteries, Chargers and Accessories: Battery Accessories

Product Footprints



| | | .5x | 1x | 1.5x | 2.5x |
|----------------------------|--|-----|----|------|------|
| Heavy-duty Busbars | | | | | |
| 777-BB4S-500 | 4 Stud | | 4 | | |
| 777-BB3S-650 | 3 Stud | | 4 | | |
| 777-BB5S-650 | 5 Stud | | | 4 | |
| 777-BB8S-650 | 8 Stud | | | | 4 |
| Z Busbars | | | | | |
| 777-Z10W-200 | 10 Way | | 4 | | |
| 777-Z18W-200 | 18 Way | | | 4 | |
| ANL Fuseholders | | | | | |
| 778-ANL | ANL | | 4 | | |
| 778-ANL2S | ANL with additional cable clamping studs | | | 4 | |
| 778-ANLTP | ANL Through Panel | | 4 | | |
| Class-T Fuseholders | | | | | |
| 778-T2S-400 | 225-400A | | | 4 | |
| 778-T2S-600 | 450-600A | | | 4 | |
| Insulated Studs | | | | | |
| IST-8MM-1S | Single 8mm | 4 | | | |
| IST-8MM-2S | Double 8mm | 4 | | | |
| IST-10MM-8MM | Double 10mm/8mm | 4 | | | |
| IST-10MM-1S | Single 10mm | 4 | | | |
| IST-10MM-2S | Double 10mm | 4 | | | |
| IST-8MM-1SPT | Single 8mm with power tapping plate | 4 | | | |
| IST-10MM-1SPT | Single 10mm with power tapping plate | 4 | | | |

Battery Chargers: A long life for your battery!

Do you want to charge your batteries safely, reliably, and quickly, even when you have poor power or a limited power supply? Do you also value batteries that have a long lifespan while maintaining their capacity? Mastervolt offers you the best possible solution. The Mastervolt 3-step[®] charging method ensures more power and a longer life for your batteries. Our battery chargers integrate multiple functions, charging your battery safely and completely even when they are depleted. Fast battery charging is guaranteed by the efficient use of the available permanent or generator power (all Mastervolt battery chargers have a power factor correction). Mastervolt is Green by Heart.

Which battery charger best meets your needs?

We offer three types of battery chargers:

Charge Pro: Range of waterproof battery chargers for recreational use and smaller industrial applications. Multiple outputs allow for flexibility.

ChargeMaster: Suitable for recreational and semi-professional use. Easy to install, it includes a detailed display and easy three-button controls. The ChargeMaster safely charges multiple battery banks at the same time.

Mass: For the toughest tasks in professional and semi-professional situations. With its integrated alarm functions and various certificates, the Mass is the best choice for professionals.



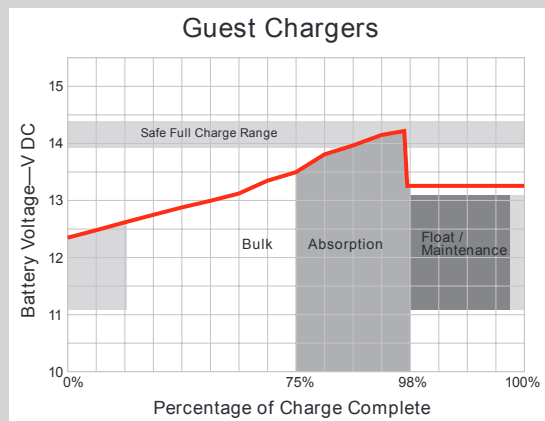
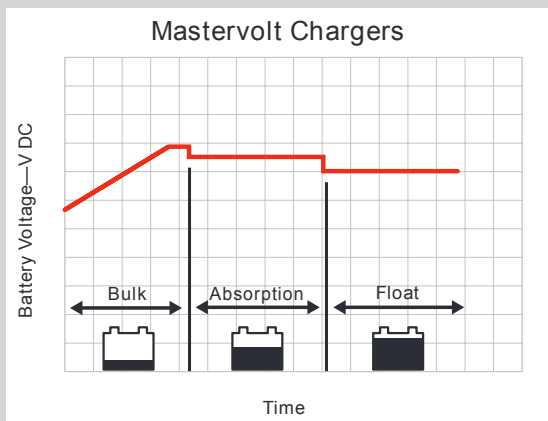
3-Stage Chargers Maximize Battery Life

More batteries are ruined by improper charging than by over-use. The safest, most efficient way to charge batteries without making them too hot or boiling off electrolyte is in three distinct stages:

Bulk Stage: The charger uses its full amp output (constant current), while the battery voltage rises.

Absorption Stage: The charger regulates the battery voltage at a peak level (constant voltage) while the current flow to the battery decreases.

Float or Maintenance Stage: Unlike some "trickle chargers", which apply a constant current to the battery, the Mastervolt float-charge technology only supplies current at the rate it will be accepted by the battery.



Choosing your battery charger?

Determine:

UHow many battery banks do I want to charge?

UWhat voltage do I need to supply? The battery charger must have the same voltage as the battery bank.

URule of thumb is that 25% of the battery capacity (up to 50% for gel batteries) as a charge capacity is sufficient to safely and quickly charge batteries while still supplying power to the onboard network. For instance, a battery charger of 50 amps is sufficient for a 200 Ah battery.



The best battery charger for every application

The ChargeMaster can charge multiple battery banks at once, providing the ease and comfort of combined functionalities. The Mass battery charger has one main outlet to optimally charge a battery bank and guarantee a long lifespan for your batteries even with daily and intensive use. The second outlet is used for the maintenance charge of your starter battery.



Charging Lithium Ion batteries

Although Lithium Ion batteries are increasingly popular, there can be a lack of clarity when it comes to the charging process. This is not a problem with a Mastervolt system as the Mastervolt battery charger communicates directly with the Li-ion battery.



Robust connections

Solid metal-to-metal connections prevent corrosion and/or overheating.









MasterBus compatible

All ChargeMaster & Mass battery chargers can be easily connected to a MasterBus network with only one cable and one connection. What's more, you have the option for central, local or remote monitoring, configuration and control of your system.



Batteries, Chargers and Accessories: Mass Battery Chargers



| Item # | Mass 24/15-2 | Mass 24/25-2 | Mass 24/50-2 | Mass 24/75 |
|---|---|---|--|---|
| 40020156 | 40020256 | 40020506 | 40020756 | |
| General Specifications | | | | |
| Nominal output voltage | 24V | 24V | 24V | 24V |
| Total charge current | 15A at 28.5V | 25A at 28.5V | 50A at 28.5V | 75A at 28.5V |
| Number of battery outlets | 2 | 2 | 2 | 1 |
| Charge current second output | 3A | 3A | 3A | n.a. |
| Recommended battery capacity | 30-150 Ah | 50-250 Ah | 100-500 Ah | 150-750 Ah |
| Nominal input voltage | 230V (180-265V) 50/60Hz | | | |
| Supplies your system without battery | yes | yes | yes | yes |
| Display/read-out | LED display | LED display | LED display | LED display |
| Dimensions, hxxwxd | 12.8"x8.7"x4.4" 325x220x111 mm | 12.8"x8.7"x4.4" 325x220x111 mm | 13.4"x10.3"x5.1" 340x261x130 mm | 13.4"x10.3"x5.1" 340x261x130 mm |
| Weight | 3.3 kg / 7.3 lbs | 3.3 kg / 7.3 lbs | 4.6 kg / 10.1 lbs | 7.7 kg / 17 lbs |
| Approvals | CE, E-mark, ABYC A-31 / RRR, RS | | CE, E-mark, ABYC A-31 / RRR, RS CE, E-mark, ABYC A-31 / RRR, RS, Lloyds, Bureau Veritas, Germanischer Lloyd | |
| Technical Specifications | | | | |
| Charge characteristic** | IUoUo, automatic / 3-step [®] for gel/AGM/wet/Lithium Ion | | | |
| Charge voltage Bulk (25°C)*** | 28.5V (8 hours) | 28.5V (8 hours) | 28.5V (8 hours) | 28.5V (8 hours) |
| Charge voltage Absorption (25°C)*** | 28.5V (4 hours) | 28.5V (4 hours) | 28.5V (4 hours) | 28.5V (4 hours) |
| Charge voltage Float (wet (25°C)*** | 26.5V | 26.5V | 26.5V | 26.5V |
| Charge voltage Float (gel/AGM (25°C)*** | 27.6V | 27.6V | 27.6V | 27.6V |
| Temperature compensation | -33 mV/°F -60 mV/°C | -33 mV/°F -60 mV/°C | -33 mV/°F -60 mV/°C | -33 mV/°F -60 mV/°C |
| Voltage compensation | voltage drop compensation in DC cables up to 3 volt | | | |
| DC consumption | <1 mA | <1 mA | <1 mA | <1 mA |
| Full load consumption (230V AC) | 550 W | 880 W | 1800 W | 2600 W |
| Cos phi | >0.95 | >0.95 | >0.95 | >0.95 |
| Temperature range (ambient temp.) | -25°C: 80°C, >45°C derating | | | -25°C: 80°C, >45°C derating |
| Cooling | vario fan | vario fan | vario fan | vario fan |
| Sound level | <48 dBA at 1 mtr | <48 dBA at 1 mtr | <48 dBA at 1 mtr | <48 dBA at 1 mtr |
| Protection degree | IP23 | IP23 | IP23 | IP23 |
| Protections | over temperature, over load, short circuit, high battery, low battery | | | |
| MasterBus compatible | yes | yes | yes | yes |
| CSI/DC alarm (Charger Status Interface) | integrated in the battery charger as standard | | | |
| GMDSS function | GMDSS panel is available for all models | | | |
| Options | | | | |
| MasterView Read-out 77010050 |  | Remote panel for reading the charge status of your battery charger, including error notifications. | | |
| MasterView Easy 77010305 |  | Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting. | | |
| MasterShunt 77020100 |  | MasterBus integrated shunt, with detailed information on the status of your batteries for a optimized charging process, incl. voltage, current, remaining time and consumption capacity in percentage. | | |
| MasterBus USB Interface 77030100 |  | Communication port between MasterBus and the USB port of your PC; makes possible reading and configuration of your MasterBus system on the PC when combined with MasterView System software (free to download). | | |
| MasterVision panels | Model C3-RS 70403040 |  | Masterlink MICC 70403105 |  |

** The charge characteristic can be set to your requirements.

*** The battery charge current can sometimes be specified at 20°C/68°F, so take temperature compensation into account.

Batteries, Chargers and Accessories: ChargeMaster Battery Chargers



ChargeMaster
12/35-3








ChargeMaster
12/50-3



ChargeMaster
12/70-3



ChargeMaster
24/20-3

| Item # | 44010350 | 44010500 | 44010700 | 44020200 |
|---|---|--|--|--|
| UL APPROVED ITEM #*** | 44010353 | 44010503 | □ | 44020203 |
| General Specifications | | | | |
| Nominal output voltage | 12V | 12V | 12V | 24V |
| Total charge current | 35A at 14.4V | 50A at 14.4V | 70A at 14.4V | 20A at 28.8V |
| Number of battery outlets | 3 | 3 | 3 | 3 |
| Charge current second output | 35A | 50A | 10A | 20A |
| Charge current third output | 35A | 50A | 10A | 20A |
| Recommended battery capacity | 70-350 Ah | 100-500 Ah | 140-700 Ah | 40-200 Ah |
| Nominal input voltage | 120/230V (90-265V) □50/60Hz | 120/230V (90-265V) □50/60Hz | 120/230V (90-265V) □50/60Hz | 120/230V (90-265V) □50/60Hz |
| AC connection | connector strips | connector strips | connector strips | connector strips |
| Supplies your system without battery | yes | yes | yes | yes |
| Display/read-out | LED display | LED display | LCD display | LED display |
| Dimensions, hxxwx d | 11.5"x8.3"x5.2" 291x210x131 mm | 11.5"x8.3"x5.2" 291x210x131 mm | 14.3"x11"x5.9" 362x277x150 mm | 11.5"x8.3"x5.2" 291x210x131 mm |
| Weight | 4 kg / 9 lbs | 4 kg / 9 lbs | 7 kg / 16 lbs | 4 kg / 9 lbs |
| Fastening | with the supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation | | | 4x screw |
| Approvals | J1171/ISO 8846 ignition protected | | CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected | |
| Technical Specifications | | | | |
| Charge characteristic* | IUoUo, automatic / 3-step © for gel/AGM/wet/Lithium Ion | | | |
| Charge voltage Bulk (25°C)** | 14.4V (8 hours) | 14.4V (8 hours) | 14.4V (8 hours) | 28.8V (8 hours) |
| Charge voltage Absorption (25°C)** | 14.25V (4 hours) | 14.25V (4 hours) | 14.25V (4 hours) | 28.5V (4 hours) |
| Charge voltage Float □wet (25°C)** | 13.25V | 13.25V | 13.25V | 26.5V |
| Charge voltage Float □gel/AGM (25°C)** | 13.8V | 13.8V | 13.8V | 27.6V |
| Temperature compensation | -30 mV/°C or -17 mV/°F | -30 mV/°C or -17 mV/°F | -30 mV/°C or -17 mV/°F | -60 mV/°C or -33 mV/°F |
| Voltage compensation | automatic | automatic | automatic | automatic |
| DC consumption | <5 mA | <5 mA | <5 mA | <2.5 mA |
| Full load consumption (230V AC) | 575 W | 825 W | 1200 W | 660 W |
| Current Control function | yes, through MasterBus | yes, through MasterBus | yes, through MasterBus | yes, through MasterBus |
| Cos phi | ≥0.98 | ≥0.98 | ≥0.98 | ≥0.98 |
| Temperature range (ambient temp.) | -25°C/60°C, >40°C derating -13°F/140°F, >104°F derating | | | -25°C/60°C, >40°C derating -13°F/140°F, >104°F derating |
| Cooling | maintenance vario fan to ensure optimized cooling | | | -13°C/140°C, >77°C derating |
| Sound level | <52 dBA at 1 mtr | <52 dBA at 1 mtr | <52 dBA at 1 mtr | <52 dBA at 1 mtr |
| Protection degree | IP23 | IP23 | IP23 | IP23 |
| Protections | over temperature, over load, short circuit, high battery, low battery | | | |
| MasterBus compatible | yes | yes | yes | yes |
| CSI/DC alarm | yes, using a Multipurpose Contact Output (Item # 77030500) | | | |
| Options | | | | |
| MasterView Read-out 77010050 |  | Remote panel for reading the charge status of your battery charger, including error notifications. | | |
| MasterView Easy 77010305 |  | Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting. | | |
| MasterShunt 77020100 |  | MasterBus integrated battery monitor, with detailed information on the status of your batteries for a optimized charging process, incl. voltage, current, remaining time and consumption capacity in percentage. | | |
| MasterBus USB Interface 77030100 |  | Communication port between MasterBus and the USB port of your PC; makes possible reading and configuration of your MasterBus system on the PC when combined with MasterView System software (free to download). | | |
| Multipurpose Contact Output 77030500 |  | MasterBus controllable potential-free contact, with alarm notification on the onboard system (low voltage or no AC), replacement of the CSI alarm contact. | | |

* The charge characteristic can be set to your requirements.

** The battery charge current can sometimes be specified at 20°C/68°F, so take temperature compensation into account.

Batteries, Chargers and Accessories: ChargeMaster Battery Chargers



ChargeMaster
24/30-3

ChargeMaster
24/40-3

ChargeMaster
24/60-3

ChargeMaster
24/80-3

ChargeMaster
24/100-3

44020300

44020400

44020600

44020800

44021000

44020303

□

□

□

□

24V

24V

24V

24V

24V

30A at 28.8V

40A at 28.8V

60A at 28.8V

80A at 28.8V

100A at 28.8V

3

3

3

3

3

30A

10A

10A

10A

10A

30A

10A

10A

10A

10A

60-300 Ah

80-400 Ah

120-600 Ah

160-800 Ah

200-1000 Ah

120/230V (90-265V) □50/60Hz

120/230V (90-265V) □50/60Hz

120/230V (90-265V) □50/60Hz

120/230V (90-265V) □50/60Hz

120/230V (90-265V) □50/60Hz

connector strips

connector strips

connector strips

connector strips

connector strips

yes

yes

yes

yes

yes

LED display

LCD display

LCD display

LCD display

LCD display

11.5"x8.3"x5.2"
291x210x131 mm

14.3"x11"x5.9"
362x277x150 mm

14.3"x11"x5.9"
362x277x150 mm

17"x11"x5.9"
432x277x150 mm

17"x11"x5.9"
432x277x150 mm

4 kg / 9 lbs

7 kg / 16 lbs

7 kg / 16 lbs

8 kg / 18 lbs

8 kg / 18 lbs

4x screw

with the supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation

CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected

IUoUo, automatic / 3-step[®] for gel/AGM/wet/Lithium Ion

28.8V (8 hours)

28.8V (8 hours)

28.8V (8 hours)

28.8V (8 hours)

28.8V (8 hours)

28.5V (4 hours)

28.5V (4 hours)

28.5V (4 hours)

28.5V (4 hours)

28.5V (4 hours)

26.5V

26.5V

26.5V

26.5V

26.5V

27.6V

27.6V

27.6V

27.6V

27.6V

-60 mV/°C or -33 mV/°F

-60 mV/°C or -33 mV/°F

-60 mV/°C or -33 mV/°F

-60 mV/°C or -33 mV/°F

-60 mV/°C or -33 mV/°F

automatic

automatic

automatic

automatic

automatic

<2.5 mA

<5 mA

<5 mA

<5 mA

<5 mA

925 W

1400 W

2000 W

2700 W

3375 W

yes, through MasterBus

yes, through MasterBus

yes, through MasterBus

yes, through MasterBus

yes, through MasterBus

≥0.98

≥0.98

≥0.98

≥0.98

≥0.98

-25°C: 60°C, >40°C derating
-13°F: 140°F, >104°F derating

-25°C: 60°C, >40°C derating
-13°F: 140°F, >104°F derating

-25°C: 60°C, >40°C derating
-13°F: 140°F, >104°F derating

-13°C: 140°C, >77°C derating

maintenance free vario fan for optimal cooling

<52 dBA at 1 mtr

<52 dBA at 1 mtr

<52 dBA at 1 mtr

<52 dBA at 1 mtr

<52 dBA at 1 mtr

IP23

IP23

IP23

IP23

IP23

over temperature, over load, short circuit, high battery, low battery

yes

yes

yes

yes

yes

yes, using a Multipurpose Contact Output

*** UL Approved chargers

UL 1642, UL 1643, UL 1644, UL 1645, UL 1646, UL 1647, UL 1648, UL 1649, UL 1650, UL 1651, UL 1652, UL 1653, UL 1654, UL 1655, UL 1656, UL 1657, UL 1658, UL 1659, UL 1660, UL 1661, UL 1662, UL 1663, UL 1664, UL 1665, UL 1666, UL 1667, UL 1668, UL 1669, UL 1670, UL 1671, UL 1672, UL 1673, UL 1674, UL 1675, UL 1676, UL 1677, UL 1678, UL 1679, UL 1680, UL 1681, UL 1682, UL 1683, UL 1684, UL 1685, UL 1686, UL 1687, UL 1688, UL 1689, UL 1690, UL 1691, UL 1692, UL 1693, UL 1694, UL 1695, UL 1696, UL 1697, UL 1698, UL 1699, UL 1700, UL 1701, UL 1702, UL 1703, UL 1704, UL 1705, UL 1706, UL 1707, UL 1708, UL 1709, UL 1710, UL 1711, UL 1712, UL 1713, UL 1714, UL 1715, UL 1716, UL 1717, UL 1718, UL 1719, UL 1720, UL 1721, UL 1722, UL 1723, UL 1724, UL 1725, UL 1726, UL 1727, UL 1728, UL 1729, UL 1730, UL 1731, UL 1732, UL 1733, UL 1734, UL 1735, UL 1736, UL 1737, UL 1738, UL 1739, UL 1740, UL 1741, UL 1742, UL 1743, UL 1744, UL 1745, UL 1746, UL 1747, UL 1748, UL 1749, UL 1750, UL 1751, UL 1752, UL 1753, UL 1754, UL 1755, UL 1756, UL 1757, UL 1758, UL 1759, UL 1760, UL 1761, UL 1762, UL 1763, UL 1764, UL 1765, UL 1766, UL 1767, UL 1768, UL 1769, UL 1770, UL 1771, UL 1772, UL 1773, UL 1774, UL 1775, UL 1776, UL 1777, UL 1778, UL 1779, UL 1780, UL 1781, UL 1782, UL 1783, UL 1784, UL 1785, UL 1786, UL 1787, UL 1788, UL 1789, UL 1790, UL 1791, UL 1792, UL 1793, UL 1794, UL 1795, UL 1796, UL 1797, UL 1798, UL 1799, UL 1800, UL 1801, UL 1802, UL 1803, UL 1804, UL 1805, UL 1806, UL 1807, UL 1808, UL 1809, UL 1810, UL 1811, UL 1812, UL 1813, UL 1814, UL 1815, UL 1816, UL 1817, UL 1818, UL 1819, UL 1820, UL 1821, UL 1822, UL 1823, UL 1824, UL 1825, UL 1826, UL 1827, UL 1828, UL 1829, UL 1830, UL 1831, UL 1832, UL 1833, UL 1834, UL 1835, UL 1836, UL 1837, UL 1838, UL 1839, UL 1840, UL 1841, UL 1842, UL 1843, UL 1844, UL 1845, UL 1846, UL 1847, UL 1848, UL 1849, UL 1850, UL 1851, UL 1852, UL 1853, UL 1854, UL 1855, UL 1856, UL 1857, UL 1858, UL 1859, UL 1860, UL 1861, UL 1862, UL 1863, UL 1864, UL 1865, UL 1866, UL 1867, UL 1868, UL 1869, UL 1870, UL 1871, UL 1872, UL 1873, UL 1874, UL 1875, UL 1876, UL 1877, UL 1878, UL 1879, UL 1880, UL 1881, UL 1882, UL 1883, UL 1884, UL 1885, UL 1886, UL 1887, UL 1888, UL 1889, UL 1890, UL 1891, UL 1892, UL 1893, UL 1894, UL 1895, UL 1896, UL 1897, UL 1898, UL 1899, UL 1900, UL 1901, UL 1902, UL 1903, UL 1904, UL 1905, UL 1906, UL 1907, UL 1908, UL 1909, UL 1910, UL 1911, UL 1912, UL 1913, UL 1914, UL 1915, UL 1916, UL 1917, UL 1918, UL 1919, UL 1920, UL 1921, UL 1922, UL 1923, UL 1924, UL 1925, UL 1926, UL 1927, UL 1928, UL 1929, UL 1930, UL 1931, UL 1932, UL 1933, UL 1934, UL 1935, UL 1936, UL 1937, UL 1938, UL 1939, UL 1940, UL 1941, UL 1942, UL 1943, UL 1944, UL 1945, UL 1946, UL 1947, UL 1948, UL 1949, UL 1950, UL 1951, UL 1952, UL 1953, UL 1954, UL 1955, UL 1956, UL 1957, UL 1958, UL 1959, UL 1960, UL 1961, UL 1962, UL 1963, UL 1964, UL 1965, UL 1966, UL 1967, UL 1968, UL 1969, UL 1970, UL 1971, UL 1972, UL 1973, UL 1974, UL 1975, UL 1976, UL 1977, UL 1978, UL 1979, UL 1980, UL 1981, UL 1982, UL 1983, UL 1984, UL 1985, UL 1986, UL 1987, UL 1988, UL 1989, UL 1990, UL 1991, UL 1992, UL 1993, UL 1994, UL 1995, UL 1996, UL 1997, UL 1998, UL 1999, UL 2000, UL 2001, UL 2002, UL 2003, UL 2004, UL 2005, UL 2006, UL 2007, UL 2008, UL 2009, UL 2010, UL 2011, UL 2012, UL 2013, UL 2014, UL 2015, UL 2016, UL 2017, UL 2018, UL 2019, UL 2020, UL 2021, UL 2022, UL 2023, UL 2024, UL 2025, UL 2026, UL 2027, UL 2028, UL 2029, UL 2030, UL 2031, UL 2032, UL 2033, UL 2034, UL 2035, UL 2036, UL 2037, UL 2038, UL 2039, UL 2040, UL 2041, UL 2042, UL 2043, UL 2044, UL 2045, UL 2046, UL 2047, UL 2048, UL 2049, UL 2050, UL 2051, UL 2052, UL 2053, UL 2054, UL 2055, UL 2056, UL 2057, UL 2058, UL 2059, UL 2060, UL 2061, UL 2062, UL 2063, UL 2064, UL 2065, UL 2066, UL 2067, UL 2068, UL 2069, UL 2070, UL 2071, UL 2072, UL 2073, UL 2074, UL 2075, UL 2076, UL 2077, UL 2078, UL 2079, UL 2080, UL 2081, UL 2082, UL 2083, UL 2084, UL 2085, UL 2086, UL 2087, UL 2088, UL 2089, UL 2090, UL 2091, UL 2092, UL 2093, UL 2094, UL 2095, UL 2096, UL 2097, UL 2098, UL 2099, UL 2100, UL 2101, UL 2102, UL 2103, UL 2104, UL 2105, UL 2106, UL 2107, UL 2108, UL 2109, UL 2110, UL 2111, UL 2112, UL 2113, UL 2114, UL 2115, UL 2116, UL 2117, UL 2118, UL 2119, UL 2120, UL 2121, UL 2122, UL 2123, UL 2124, UL 2125, UL 2126, UL 2127, UL 2128, UL 2129, UL 2130, UL 2131, UL 2132, UL 2133, UL 2134, UL 2135, UL 2136, UL 2137, UL 2138, UL 2139, UL 2140, UL 2141, UL 2142, UL 2143, UL 2144, UL 2145, UL 2146, UL 2147, UL 2148, UL 2149, UL 2150, UL 2151, UL 2152, UL 2153, UL 2154, UL 2155, UL 2156, UL 2157, UL 2158, UL 2159, UL 2160, UL 2161, UL 2162, UL 2163, UL 2164, UL 2165, UL 2166, UL 2167, UL 2168, UL 2169, UL 2170, UL 2171, UL 2172, UL 2173, UL 2174, UL 2175, UL 2176, UL 2177, UL 2178, UL 2179, UL 2180, UL 2181, UL 2182, UL 2183, UL 2184, UL 2185, UL 2186, UL 2187, UL 2188, UL 2189, UL 2190, UL 2191, UL 2192, UL 2193, UL 2194, UL 2195, UL 2196, UL 2197, UL 2198, UL 2199, UL 2200, UL 2201, UL 2202, UL 2203, UL 2204, UL 2205, UL 2206, UL 2207, UL 2208, UL 2209, UL 2210, UL 2211, UL 2212, UL 2213, UL 2214, UL 2215, UL 2216, UL 2217, UL 2218, UL 2219, UL 2220, UL 2221, UL 2222, UL 2223, UL 2224, UL 2225, UL 2226, UL 2227, UL 2228, UL 2229, UL 2230, UL 2231, UL 2232, UL 2233, UL 2234, UL 2235, UL 2236, UL 2237, UL 2238, UL 2239, UL 2240, UL 2241, UL 2242, UL 2243, UL 2244, UL 2245, UL 2246, UL 2247, UL 2248, UL 2249, UL 2250, UL 2251, UL 2252, UL 2253, UL 2254, UL 2255, UL 2256, UL 2257, UL 2258, UL 2259, UL 2260, UL 2261, UL 2262, UL 2263, UL 2264, UL 2265, UL 2266, UL 2267, UL 2268, UL 2269, UL 2270, UL 2271, UL 2272, UL 2273, UL 2274, UL 2275, UL 2276, UL 2277, UL 2278, UL 2279, UL 2280, UL 2281, UL 2282, UL 2283, UL 2284, UL 2285, UL 2286, UL 2287, UL 2288, UL 2289, UL 2290, UL 2291, UL 2292, UL 2293, UL 2294, UL 2295, UL 2296, UL 2297, UL 2298, UL 2299, UL 2300, UL 2301, UL 2302, UL 2303, UL 2304, UL 2305, UL 2306, UL 2307, UL 2308, UL 2309, UL 2310, UL 2311, UL 2312, UL 2313, UL 2314, UL 2315, UL 2316, UL 2317, UL 2318, UL 2319, UL 2320, UL 2321, UL 2322, UL 2323, UL 2324, UL 2325, UL 2326, UL 2327, UL 2328, UL 2329, UL 2330, UL 2331, UL 2332, UL 2333, UL 2334, UL 2335, UL 2336, UL 2337, UL 2338, UL 2339, UL 2340, UL 2341, UL 2342, UL 2343, UL 2344, UL 2345, UL 2346, UL 2347, UL 2348, UL 2349, UL 2350, UL 2351, UL 2352, UL 2353, UL 2354, UL 2355, UL 2356, UL 2357, UL 2358, UL 2359, UL 2360, UL 2361, UL 2362, UL 2363, UL 2364, UL 2365, UL 2366, UL 2367, UL 2368, UL 2369, UL 2370, UL 2371, UL 2372, UL 2373, UL 2374, UL 2375, UL 2376, UL 2377, UL 2378, UL 2379, UL 2380, UL 2381, UL 2382, UL 2383, UL 2384, UL 2385, UL 2386, UL 2387, UL 2388, UL 2389, UL 2390, UL 2391, UL 2392, UL 2393, UL 2394, UL 2395, UL 2396, UL 2397



Charge Pro □ Battery Chargers

Guest Charge Pro battery chargers are built to provide fast, efficient charging in harsh environments. These are proven designs with many years of satisfying owners by charging their batteries quickly and keeping their batteries in excellent shape. Guest chargers are epoxy □led to resist water and dust from damaging the electrical components and extend the charger life in harsh environments.

- UFast charging
- ULED's indicates charge status
- UEpoxy □led to resist water and dust
- UNot recommended for use with Mastervolt Lithium Ion batteries



6 Amp Single Output



6 Amp Dual Output



10 Amp Dual Output

| Item # | 2608A-B 2608A-B-01 | W/SJTW Cord (-40°C) | 2607A-B | 2610A |
|----------------|---------------------------------------|---------------------|---------------------------------------|--|
| Total Amps | 6 | | 6 | 10 |
| Outputs | 1 | | 2 | 2 |
| Amps per out | 6 | | 3/3 | 5/5 |
| Battery System | 12V | | 12V+ 12V or 24V | 12V+ 12V |
| Input Voltage | 100□130V AC / 60Hz | | 100□130V AC / 60Hz | 100□130V AC / 60Hz |
| Output Voltage | 12V | | 12V | 12V |
| AC | 6□cord w/ ConnectCharge□ plug | | 6□cord w/ ConnectCharge□ plug | Studs |
| DC | 4□with ring terminals | | 4□with ring terminals | Studs |
| Dimensions | 3.50" x 6.40" x 2.25" 89x163x57 mm | | 3.50" x 6.40" x 2.25" 89x163x57 mm | 5.50" x 7.75" x 2.42" 140x197x61 mm |
| Weight | 4.0 lbs | | 4.0 lbs | 5.6 lbs |



10 Amp Dual Output



15 Amp Triple Output



20 Amp Dual Output

| Item # | 2611A-B | 2613A | 2620A |
|----------------|--|---------------------------------------|---------------------------------------|
| Total Amps | 10 | 15 | 20 |
| Outputs | 2 | 3 | 2 |
| Amps per out | 5/5 | 5/5/5 | 10/10 |
| Battery System | 12V+ 12V or 24V | 12V+ 12V+ 12V or 24V+ 12V | 12V+ 12V or 24V |
| Input Voltage | 100□130V AC / 60Hz | 100□130V AC / 60Hz | 100□130V AC / 60Hz |
| Output Voltage | 12V | 12V | 12V |
| AC | 6□cord w/ ConnectCharge□ plug | 6□cord w/ ConnectCharge□ plug | 6□cord w/ ConnectCharge□ plug |
| DC | 4□with ring terminals | 4/4/6□with ring terminals | 6□with ring terminals |
| Dimensions | 5.50" x 7.75" x 2.42" 140x197x61 mm | 7.0" x 9.60" x 2.60" 178x244x66 mm | 7.0" x 9.60" x 2.60" 178x244x66 mm |
| Weight | 5.6 lbs | 8.0 lbs | 8.0 lbs |



| | | | |
|-----------------|---------------------------------------|---------------------------------------|--|
| Name: | 2 Amp Battery Charger | 2 Amp Battery Charger | 5 Amp Battery Charger |
| Item # | 2602A-12-B | 2602A-24-B | 2605A-1-24RT-01 |
| Total Amps: | 2 | 2 | 5 |
| Outputs: | 1 | 1 | 1 |
| Amps per out: | 2 | 2 | 5 |
| Battery System: | 12V | 24V | 24V |
| Input Voltage: | 100-130V AC/60Hz | 100-130V AC / 60Hz | 100-130V AC |
| Output Voltage: | 12V | 24V | 24V |
| AC: | 6-foot cord with ConnectCharge plug | 6-foot AC cord with standard plug | 6-foot cord with ConnectCharge plug |
| DC: | 4-foot with ring terminals | 4-foot with battery clips | 6-foot with ring terminals |
| Dimensions: | 2.75" x 4.50" x 1.50" 70x114x38 mm | 2.75" x 4.50" x 1.50" 70x114x38 mm | 7.40" x 6.30" x 2.40" 188x160x61 mm |
| Weight: | 2.0 lbs / 0.9 kg | 2.0 lbs / 0.9 kg | 4.5 lbs / 2.0 kg |



10 Amp Single Output



30 Amp Triple Output



| | | |
|----------------|--|--|
| Item # | 2611A-1-B | 2631A |
| Total Amps | 10 | 30 |
| Outputs | 1 | 3 |
| Amps per out | 10 | 10/10/10 |
| Battery System | 12V | 12V+ 12V+ 12V or 24V+ 12V or 36V |
| Input Voltage | 100-130V AC / 60Hz | 100-130V AC / 60Hz |
| Output Voltage | 12V | 12V |
| AC | 6-foot cord w/ ConnectCharge <input type="checkbox"/> plug | 6-foot cord w/ ConnectCharge <input type="checkbox"/> plug |
| DC | 4-foot with ring terminals | 6-foot with ring terminals |
| Dimensions | 5.50" x 7.75" x 2.42" 140x197x61 mm | 7.0" x 13.0" x 2.60" 178x330x66 mm |
| Weight | 5.6 lbs | 13.0 lbs |

Batteries, Chargers and Accessories: Charge Pro Battery Chargers



| | | | |
|-----------------|--------------------------------------|-------------------------------------|-------------------------------------|
| Name: | 3 Amp Battery Charger | 6 Amp Battery Charger | 10 Amp Battery Charger |
| Item # | 2603-B | 2606A | 2612A |
| Total Amps: | 3 | 6 | 10 |
| Outputs: | 1 | 1 | 1 |
| Amps per out: | 3 | 6 | 10 |
| Battery System: | 12V | 12V | 12V |
| Input Voltage: | 100-130V AC/60Hz | 100-130V AC / 60Hz | 100-130V AC / 60Hz |
| Output Voltage: | 12V | 12V | 12V |
| AC: | 18" AC cord with standard plug | 6" AC cord with standard plug | 6" AC cord with standard plug |
| DC: | 4" with battery clips | 4" with battery clips | 4" with battery clips |
| Dimensions: | 3.10" x 3.50" x 2.34" 79x89x59 mm | 5.5" x 5.0" x 2.4" 140x127x61 mm | 7.5" x 5.0" x 2.4" 191x127x61 mm |
| Weight: | 1.0 lbs / 0.5 kg | 3.5 lbs / 1.6 kg | 4.5 lbs / 2 kg |

ConnectCharge[®] Inlets



Universal Mount
 UMount to dash or panel from rear with threaded locking ring or from the front with three screws through the face plate

Item # 150CCI



Rear Mount
 UMounts to dash or panel from rear with threaded locking ring

UEliminates rewiring, plug snaps into Inlet locking tab

UWatertight lid protects AC plug

OEM # 150CCTM.OEM



Front Mount

UMounts to panel from front with three screws through the face plate

OEM # 150CC.OEM

For use with Battery chargers with ConnectCharge[®] Plug only!

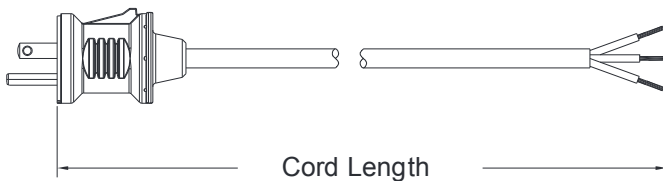
Exclusive molded notch on plug locks into ConnectCharge[®] inlet



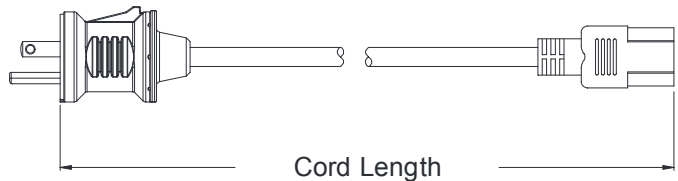
ConnectCharge[®] Cords

| 14/3SJTW Cord Length | Amps | Voltage | Nema Configuration | Cord Termination | Item Number |
|----------------------|------|---------|--------------------|----------------------|-------------|
| 24" | 15 | 125 | | Strip & Retain | 152400-01 |
| | | | | IEC320 C15 Connector | 152400-03 |
| 48" | 15 | 125 | | Strip & Retain | 154800-01 |
| | | | | IEC320 C15 Connector | 154800-03 |
| 72" | 15 | 125 | | Strip & Retain | 157200-01 |
| | | | | IEC320 C15 Connector | 157200-03 |

Strip and Retain



IEC320 C15 Connector



Hard Wired Charger Inlets

U15A or 20A 125V straight blade inlet

ULow profile cap

UPerma-Lock[®] terminals and color coded wire entrance holes make wiring a snap

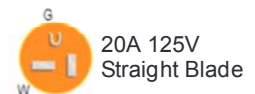
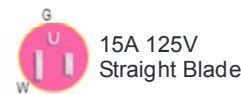
UUV resistant housing/cap

UNickle-Plated contacts

UStainless steel screws



| Amp | Color | Universal Mount Item # | Front Mount OEM # | Rear Mount OEM # |
|-----|-------|------------------------|-------------------|------------------|
| 15 | Black | 150BBI | 150BBI.OEM | 150BBI-TM |
| 15 | White | 150BBIW | 150BBIW.OEM | □ |
| 20 | White | 200BBIW | 200BBIW.OEM | □ |



NEW Sine Wave Inverters

Clean, true sinewave inverter technology that delivers AC power to onboard devices.

UFor sensitive onboard electronics such as monitors, TV and entertainment centers.

UPrevents draining the battery: low battery alarm and low battery shutdown.

UProtected against: Over-current, low voltage, reverse polarity and temperature

UEasy to install and operate

UOptional remote control panel. INVR-1

U120V models comply to FCC class A & meet UL458

U230V models comply to e-13 / CE

OEM Version

UQuick connect solution

UWAGO AC Connector, Contra part can be integrated in wireloom

UDC Connector, upgraded to Twin Insulated stud (IS-10MM-2) + covers

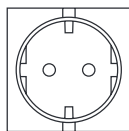
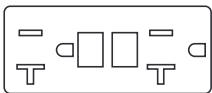
UEasy to upgrade. Same connections for all OEM Inverters

UOEM versions include WAGO Plug (770-103) and twin insulated stud (IS-10MM-2)



| Output | | | Input | | Output Receptacle Type | Item # | OEM # |
|----------------|----------------|------|--------|---------------|------------------------|-------------|-----------------|
| Continuous | Surge Capacity | Hz | Volts | Range | | | |
| 120V AC Output | | | | | | | |
| 700W | 1400W | 60Hz | 12V DC | 10.5-15.0V DC | NEMA 5-15R w/GFCI | INV20120700 | INV20120700.OEM |
| | | | 24V DC | 21.0-30.0V DC | NEMA 5-15R w/GFCI | □ | INV20240700.OEM |
| 1000W | 2000W | 60Hz | 12V DC | 10.5-15.0V DC | NEMA 5-15R w/GFCI | INV20121000 | □ |
| 1500W | 3000W | 60Hz | 12V DC | 10.5-15.0V DC | NEMA 5-15R w/GFCI | INV20121500 | □ |
| 2000W | 4000W | 60Hz | 12V DC | 10.5-15.0V DC | NEMA 5-15R w/GFCI | INV20122000 | INV20122000.OEM |
| | | | 24V DC | 21.0-30.0V DC | NEMA 5-15R w/GFCI | □ | INV20242000.OEM |
| 230V AC Output | | | | | | | |
| 700W | 1400W | 50Hz | 12V DC | 10.5-15.0V DC | Schuko | INV10120700 | INV10120700.OEM |
| | | | 24V DC | 21.0-30.0V DC | Schuko | INV10240700 | INV10240700.OEM |
| | | 60Hz | 12V DC | 10.5-15.0V DC | Schuko | INV30120700 | INV30120700.OEM |
| | | | 24V DC | 21.0-30.0V DC | Schuko | □ | INV30240700.OEM |
| 1000W | 2000W | 50Hz | 12V DC | 10.5-15.0V DC | Schuko | INV10121000 | □ |
| | | | 24V DC | 10.5-15.0V DC | Schuko | INV10241000 | □ |
| 1500W | 3000W | 50Hz | 12V DC | 10.5-15.0V DC | Schuko | INV10121500 | □ |
| | | | 24V DC | 21.0-30.0V DC | Schuko | INV10241500 | □ |
| | | 60Hz | 12V DC | 10.5-15.0V DC | Schuko | INV30121500 | □ |
| | | | 24V DC | 21.0-30.0V DC | Schuko | INV30241500 | □ |
| 2000W | 4000W | 50Hz | 12V DC | 10.5-15.0V DC | Schuko | □ | INV10122000.OEM |
| | | | 24V DC | 21.0-30.0V DC | Schuko | □ | INV10242000.OEM |
| | | 60Hz | 12V DC | 10.5-15.0V DC | Schuko | □ | INV30122000.OEM |
| | | | 24V DC | 21.0-30.0V DC | Schuko | □ | INV30242000.OEM |

5-15R w/GFCI



Schuko

MasterBus Communication System

MasterBus is the proprietary communication platform for Mastervolt products. It uses high-speed CanBus technology with a proprietary overlay. MasterBus is safe, reliable and easy to install. A single CAT5 MasterBus cable is all that is needed to connect various Mastervolt devices together; no additional power supply is needed. Once connected, an integrated MasterBus system allows a user to change settings or control various systems and sub systems of the network. Everything from integrated power management, power monitoring, load management, Digital Switching, and security can be easily operated using a remote panel or a computer. Remote monitoring and control is even available via cellular phones.

The MasterBus system offers a number of basic components to compliment a complete MasterBus system.

MasterShunt 500

This ultra-modern battery monitor provides detailed information on the status of the system's batteries. The intelligent connection system allows the device to automatically control systems, such as starting a generator automatically when the batteries are depleted by 95%. The MasterShunt also has a built-in robust main fuse that can safely break short-circuit currents up to 50,000 Amps.



DC Distribution 500

The DC Distribution 500 is the smallest distribution model available. It connects up to four DC devices to the DC groups, such as a battery charger, inverter, alternators and solar panels. The included plug and play cable makes connection to the MasterBus network a breeze.



Masterview Easy

Simple yet effective touchscreen control panel to monitor and control all the devices on the MasterBus network. The panel is easy to read and even easier to operate. The panel uses the same MasterBus cable as all the other MasterBus devices. This cable is used for data transfer and as a power supply for the display.

MasterView System

This 10.4 inch color touch screen is the smartest solution for intelligent MasterBus control. This system provides all the essential information on your MasterBus system and organizes it in a friendly fashion. The interactive touchscreen can be programmed to display any specific part of your electrical system. Each and every MasterBus device can be accessed with the tap of the screen and modified as needed. It can be organized in a graphical fashion or displayed in various tables or lists. This panel completes a fully integrated MasterBus system.

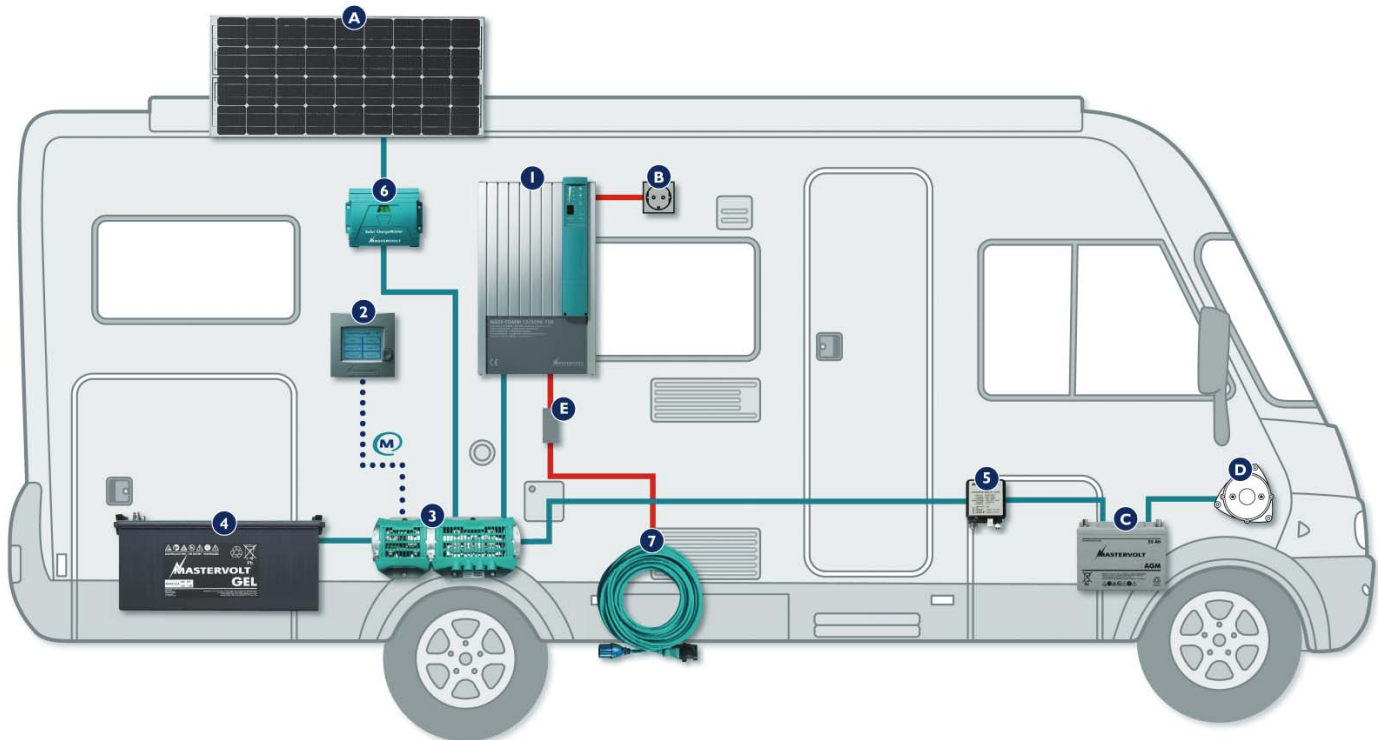
MasterBus and Digital Switching Components

The list of auxiliary interface modules for the MasterBus system continues to grow. Every day we strive to add new devices, new applications, and new interface protocols to the MasterBus system. Below are a few of the recent additions to the MasterBus line:

- USB Interface □ Interfacing between the MasterBus system and a PC/Laptop
- MODBus Interface □ Interfacing between the MasterBus system and PLC's
- GPRS Interface □ Allows the MasterBus system to communicate with cellular phones and laptops
- NMEA 2000 Interface □ Allows communication between MasterBus systems and NMEA 2000 devices
- Tank Level Interface □ Converts analog sensor input signals to MasterBus data (4 to 20 mA, 0 to 10 V, 0 to 180 °)
- Multipurpose Contact Output □ Potential-free contact can be customized and programmed for external control
- Inverter Interface □ Allows Mastervolt Mass Sine Inverters to be monitored and controlled from the MasterBus system
- Combi Interface □ Allows Mastervolt Mass Combi to be monitored and controlled from the MasterBus system
- Serial Interface □ Connects existing Mastervolt products to the MasterBus system
- Digital Input □ Allows for connection of up to four switches to the MasterBus network
- Repeater □ Double the maximum length of your MasterBus network



Complete MasterBus System Example



- | | | | |
|----------------------------------|----------------------|-----------------------------|-------------------------|
| 1 Combi inverter/battery charger | 5 Charge Mate | A PV panel | — 12 V DC |
| 2 MasterView Easy | 6 Solar ChargeMaster | B 120 V or 230 V outlet | — 120 V or 230 V AC |
| 3 MasterShunt & DC Distribution | 7 Power cord | C Vehicle starter battery | MasterBus network |
| 4 Service battery | | D Vehicle engine alternator | |
| | | E Earth leakage switch | |

Mass Combi: Charging, inverting and power support in one device

The Mastervolt Mass Combi combines the best of both worlds with an advanced battery charger and a silent inverter rolled into one compact device.

Modern technology

The design of the Mass Combi is both unique and characteristic of Mastervolt. Rather than installing heavy transformers, our lightweight, high-frequency switch mode technology offers major benefits in terms of size, weight and sound (no hum!). The technology also ensures an exceptionally high efficiency with a minimal conversion loss and a low no-load consumption. The Mass Combi meets all your requirements and more!

Versatility in power supply

One of the key reasons for the Mass Combi's popularity is its versatile power supply. The starter and service batteries are charged quickly and completely. The inverter provides a silent and clean power supply. The Combi also has two separate AC outputs for light and heavy equipment.



Perfect in a MasterBus system

The Mastervolt Mass Combi fits perfectly within a MasterBus system. The platform allows all components to be connected easily, provides a simple and intuitive operation, and requires far fewer cables for installation. The system can be combined with a MasterView Easy, MasterShunt or decentralized Digital Switching system for instance.



Intuitive operation

Each Mass Combi can be operated easily and intuitively. The Mass Combi includes LED indication of charging phase and charge current, the 230/120V system load and 12/24 or 48V system, 'yes/no' availability of 120/230V and 'failure'. It features an on/off switch with a 'charge only' position when the vehicle is in storage. Mastervolt also offers a complete selection of control panels, ranging from the compact 3.5 inch panel called MasterView Easy (picture) to a large 10.4-inch touchscreen panel.



Not just any charger

The built-in battery charger uses Mastervolt's proven 3-step⁺ charging technology to allow easy charging of all battery types, including MLI Ultra. The battery charger supplies a maximum charge current, even with a higher charge voltage, and speeds up the recharging of your batteries. The Mass Combi also functions as DC supply if there is no battery.

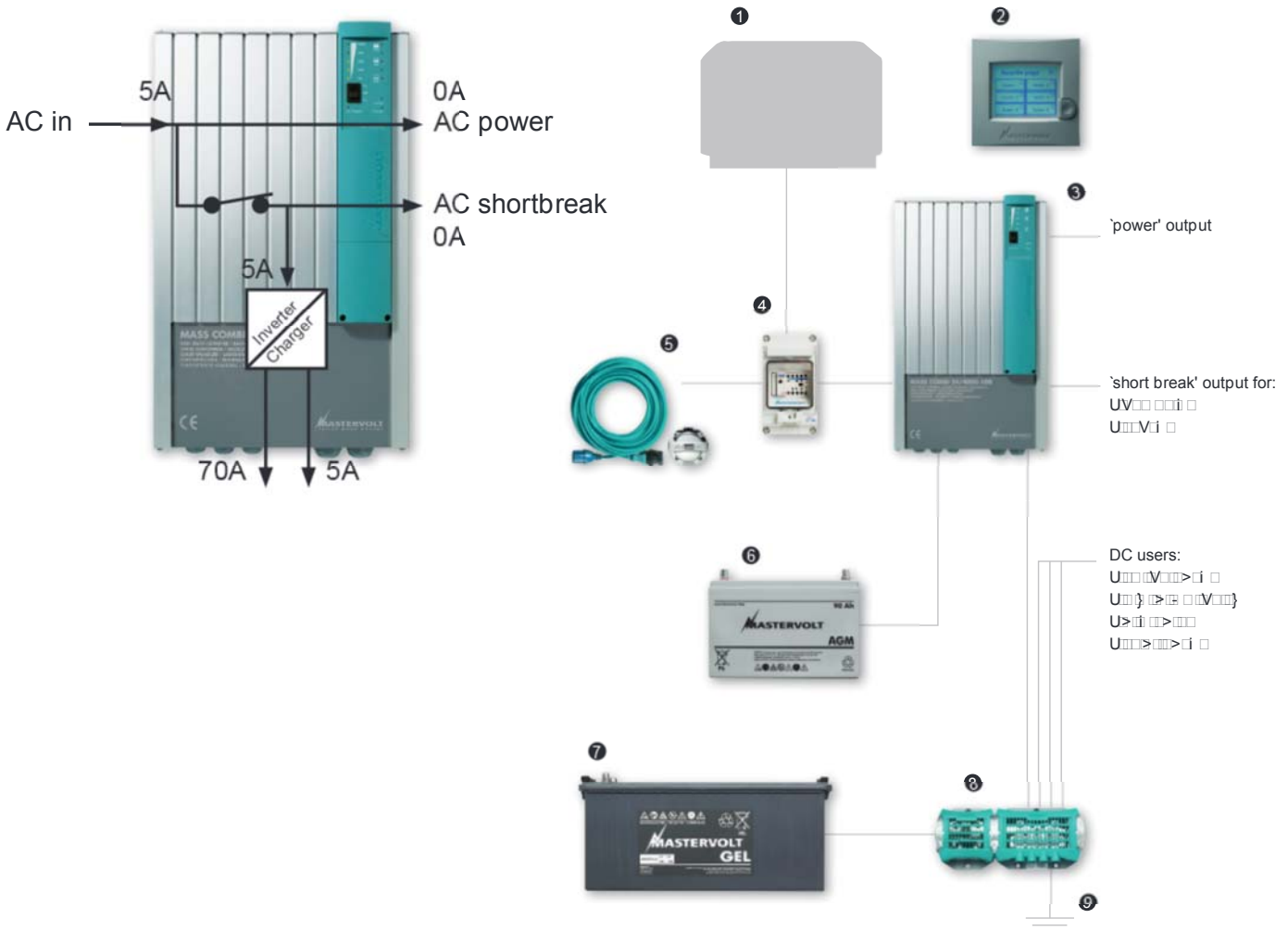
Combined functionality

- U Power boost from battery when off-board power is limited (plug-in/generator support)
- U Charging two individual battery terminals
- U Invert to 120V/60Hz or 230V/50Hz pure sine wave voltage
- U Supplies 12, 24 or 48 volt onboard power
- U Multiple distribution and switching systems
- U Two Combis parallel switched for more power
- U Very low amp draw with no load present
- U Key hole slots allow for quick installation
- U Compact and lightweight

Mastervolt Mass Combi in a MasterBus System

The Mastervolt Mass Combi fits perfectly within a MasterBus system. The system allows all components to be connected easily, provides a simple and intuitive operation and requires far fewer cables for installation. One MasterView Easy touch screen panel controls the entire system, displays information about the Combi as well as the batteries (via the MasterShunt) and operates the generator. The system can also be combined with Mastervolt's decentralized Digital Switching system.

| Output Voltage | DC Voltage | General Specifications | Item Number |
|----------------|------------|------------------------|-------------|
| 120V - 60Hz | 12 V | 2500 W - 100A Charger | 37012505 |
| | | 4000 W - 200A Charger | 37014005 |
| | 24 V | 2500 W - 60A Charger | 37022505 |
| | | 4000 W - 120A Charger | 37024005 |
| 230V - 50Hz | 12 V | 1200 W - 60A Charger | 36011205 |
| | | 2000 W - 100A Charger | 36012005 |
| | | 2500 W - 100A Charger | 36012505 |
| | | 4000 W - 200A Charger | 36014005 |
| | 24 V | 1200 W - 35A Charger | 36021205 |
| | | 2000 W - 60A Charger | 36022005 |
| | | 2500 W - 60A Charger | 36022505 |
| | | 4000 W - 120A Charger | 36024005 |



Alternators and Charge Regulators: For rapidly recharged batteries

The already present alternator on the main engine is designed to charge the starter battery. As a result the combination is not ideal for fast and full charging of other batteries such as the service battery. Especially if you want to charge the batteries over a short time or when the batteries and onboard network require a little more power.

There are two options to solve this issue:

Equip the standard alternator with a Mastervolt Alpha Pro MB charge regulator. This will ensure that the existing alternator works in accordance with the 3-step charge technology instead of its standard 1-step method, and that the batteries are charged faster within a shorter period.

You can also choose a powerful second Mastervolt Alpha alternator with Alpha Pro MB charge regulator. This combination was specifically designed for charging service batteries, and allows you to charge quickly during normal operation.



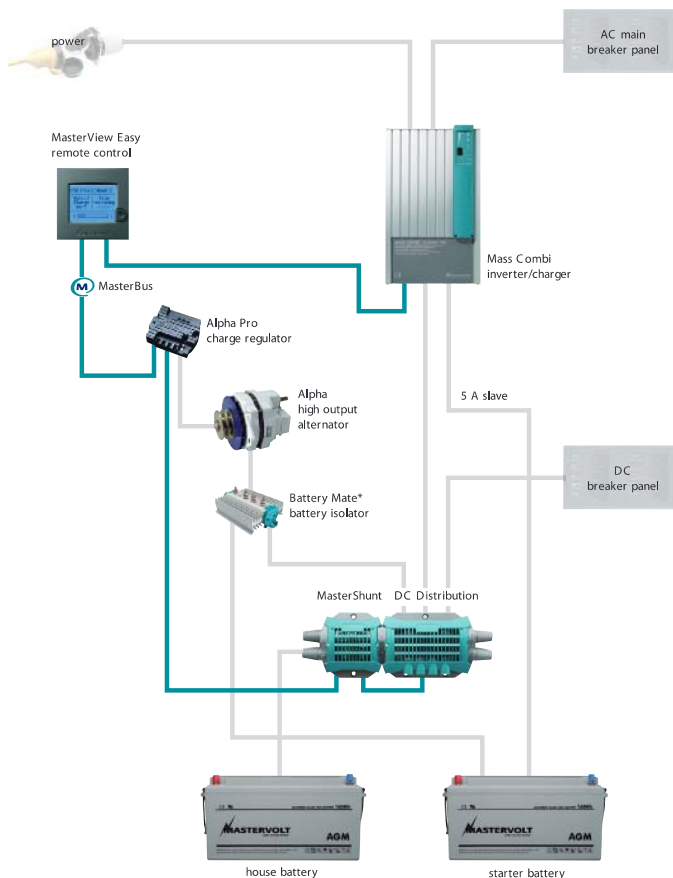
Alpha alternator series

- U Fast & complete charging of starter/service batteries
- U Power supply for all consumers
- U 12V and 24V versions
- U 75A to 150A charge current
- U Standard delivered with Alpha Pro MB charge regulator for an optimal performance and longer-lasting batteries

Alpha Pro MB charge regulators

- U Suitable for 12 and 24 V
- U Including plug & play connection cable, also for Bosch alternators
- U Automatic voltage and temperature compensation
- U MasterBus compatible

The charge voltage is automatically adjusted if there is any risk of gas formation. Electronics permanently regulate the voltage, ensuring that the battery is always kept in good condition.



Batteries, Chargers and Accessories: Alternators & Charge Regulators

Fast charging, even at a stationary rpm

Standard alternator only supply the specified capacity at a high rpm. The Mastervolt Alpha generator was specifically designed to charge powerfully, even with a low engine rpm.



For all engine types
Alpha alternators are equipped with several options for customized alternator brackets, available from your installer or engine supplier. Some engine brands come with Mastervolt alternator brackets as an option.



Multi-groove pulley
The 12/130 and 24/75 models are also available with a multi-groove pulley.



Performs above 40°C
Forced cooling via the ventilator action of the pulley provides a lot of power in higher temperatures, even in enclosed engine rooms where the temperature can easily rise above 40°C.



Alpha Pro MB charge regulator:
Easy to install
The Alpha Pro MB charge regulator is designed as a 'fit all' solution, just one unit is needed for both 12 and 24 V applications, with a simple selector switch to set the regulator to the right voltage. The unit can also be used on any other brand of alternator that has a standard Bosch connector, with a cable supplied as standard in the box. Easy operation LEDs on the body of the regulator indicate the charge phase.

Alpha Alternator Specifications



| | 12/90 | 12/130* | 24/75* | 24/110 | 24/150 |
|-----------------------------------|---|---------------------|---------------------|---------------------|---|
| Item # | 48512090 | 48512130 | 48524075 | 48524110 | 48524150 |
| Type cabinet | A | B | B | B | C |
| Charge current | 90A | 130A | 75A | 110A | 150A |
| Alpha Pro charge regulator | standard | standard | standard | standard | standard |
| Charge voltage absorption | 14.25V | 14.25V | 28.5V | 28.5V | 28.5V |
| Charge voltage float | 13.25V | 13.25V | 26.5V | 26.5V | 26.5V |
| Cable length regulator/alternator | 1.5 meter / 4.9 ft, oil resistant marine connection cable □ delivered as standard | | | | |
| Pulley (double) diameter | □ 73 mm | □ 88 mm | □ 88 mm | □ 88 mm | □ 92 mm |
| Belt section | 2xA | 2xA | 2xA | 2xA | 2xA |
| Isolated from mass | yes | yes | yes | yes | yes |
| Directions of revolutions | 2 | 2 | 2 | 2 | 2 |
| Weight | 12.1 lbs 5.5 kg | 22.3 lbs 10.1 kg | 22.3 lbs 10.1 kg | 22.3 lbs 10.1 kg | 28.9 lbs 13.1 kg |
| Dimensions | contact Marincotech technical support for drawings | | | | |
| Mounting | □ve to six, six o'clock & □ve past six | six o'clock | six o'clock | six o'clock | □ve to six, six o'clock & □ve past six |
| Charge regulation | the Alpha Pro regulator is standard with all models, see table below | | | | |

* Available with multi-groove pulley (12/130 model = 48512131, 24/75 model = 48524076).

Alpha Pro MB Charge Regulator



45512000



Connection cable delivered as standard



Plus connection cable for Bosch alternator

| | |
|--------------------------------------|---|
| Link to MasterShunt | yes |
| Connection to Mastervolt alternator | yes |
| Connection to Bosch alternator | yes |
| Cooling | fanless |
| Nominal output voltage | 12 V / 24 V |
| Cable length regulator/alternator | 5 □ (1.5 m) oil resistant connection cable |
| Cable length temperature sensor | 20 □ (6 m) |
| Connection plug regulator/alternator | Alpha/Mastervolt |
| Display/read-out | LED display |
| Dimensions, hwxwd | 3.5"x4.3"x1.2" (90x109x30 mm) |
| Weight | 0.88 lbs (0.4 kg) |
| Approvals | CE |
| Charge characteristic | IUoUo, automatic / 3-step+ for gel/AGM/ wet/Lithium Ion |
| Charge voltage bulk | 14.25 V / 28.5 V |
| Charge voltage absorption | 14.25 V / 28.5 V |
| Absorption time | 4 hours, adjustable from 2 minutes to 12 hours |
| Charge voltage float | 13.25 V / 26.5 V |
| Temperature compensation | -22 mV / □F (-30 mV / □C) |
| Voltage compensation | voltage drop compensation in DC cables up to 3 V |
| Alternator type | various |
| Protection degree | IP65 |
| MasterBus compatible | yes |

For detailed specifications, scale drawings, 3D files, certificates, and manuals, contact Marincotech technical support.



The sun as extra energy source

As photovoltaic cells generate energy when exposed to sunlight, they can provide a sustainable energy source and charge your batteries.

All Mastervolt's know-how in the field of solar power has been included in the Solar ChargeMaster, which offers maximum efficiency from the often irregular availability of sunlight. Power electronics provide a pure charge current in all conditions while the 3-step charging method ensures a safe charging process and a longer lifespan for your batteries.

Features

- U Works with nearly all solar panels (PV-modules)
- U Suitable for 12V and 24V
- U Clear LCD display and graphics
- U 3-Step charging method adjustable for all battery types
- U Automatic night detection
- U Extensive alarm system (buzzer)
- U Automatically switches off load when battery current is low
- U Comes as standard with temperature sensor for batteries
- U Optional PC-Link for PC and laptop

Solar ChargeMaster Specifications



SCM-N 20



SCM-N 40

| | SCM-N 20 | SCM-N 40 |
|----------------------------|---|---------------------------------|
| Item # | 131802000 | 131804000 |
| Charge current | 20A | 40A |
| Max. DC load | 20A | 40A |
| Solar input voltage window | 12-50V DC | 12-50V DC |
| System voltage (battery) | 12/24V auto detect | 12/24V auto detect |
| No load | < 4 mA | < 4 mA |
| Functions LCD display | battery status/V/A/charge & discharge | |
| Connections | screw terminal | screw terminal |
| Settings | load/disconnect, 3-step charge characteristic | |
| Dimensions, hxxwxd | 5.5"x4.1"x1.6" 140x105x41 mm | 5.5"x4.1"x1.6" 140x105x41 mm |
| Protection degree cabinet | IP20 | IP20 |
| Weight | 2 lbs / 189 gr | 2 lbs / 189 gr |
| PC-Link | 21730400 option | 21730400 option |

Mastervolt DC-DC converters: For 12, 24 and 48V

The voltage required for direct current (DC) can vary considerably in many applications. Many devices may require 24 V, while navigation and communication equipment often requires 12V. By using a DC-DC converter, other voltages than applied in your basic system can be reached. They also ensure that all your onboard equipment has a stable power supply with the right voltage.

DC Master series

- URecreational and semi-professional use
- UEasy to install using included mounting bracket
- UExcellent price/performance ratio
- UMore power available for two minute intervals

Mac & Magic series

- UProfessional use
- UBattery charger and dimmer function
- UParallel connection
- UAdjustable output voltage
- UVoltage stabilization for a longer lifespan of halogen lights, etc.



The Magic models can regulate the voltage both up and down to ensure an optimal voltage stabilization, even when the battery voltage fluctuates due to heavy loads. The galvanic isolation between input and output prevents disruptions to, for instance, communication equipment.

Programmable via a desktop or laptop PC

Remotely control the Mac or Magic via your laptop or PC or configure your personal preferences. The device has a communication port and easy installation with a PC-Link and MasterAdjust software.

3-Step[⊕] battery charger

Connected to the 24V main battery, the converter can also be used as an advanced 3-step[⊕] chargers for 12/24V gel, AGM, wet or Lithium Ion batteries (Mac & Magic models only).

Over 90% efficiency

Advanced high-frequency technology with modern microprocessors ensures minimum power loss when switching from 24 to 12V and vice versa. If you have many power-consuming devices, the parallel use of several units allows capacities of 40, 60 or more amps.

Complete package DC Master
All DC Master converters are delivered with mounting bracket, screws and fasteners.



Solid connections
Chrome-plated brass connection block with screw terminal or chrome-plated fast-on for DC in/out.

Masterstrokes

- UNo unnecessary heat development due to the use of smart electronics.
- UContinuous output voltage.
- UEasy to install.

Please note:

- UChoose the right input/output voltage.
- UDo you require galvanic isolation?
- UDesired capacity.

Batteries, Chargers and Accessories: DC Master Specifications



24/12-50A
81400350



12/24-3A
81400400



12/24-7A
81400500



48/12-6A
81400600



48/12-9A
81400700



48/12-20A
81400800

| | | | | | |
|-----------|-------------|-------------|-----------|-----------|-----------|
| 24V | 12V | 12V | 48V | 48V | 48V |
| 20-32V DC | 10-15.5V DC | 10-15.5V DC | 40-62V DC | 40-62V DC | 40-62V DC |
| 13.6V | 27.2V | 27.2V | 13.6V | 13.6V | 13.6V |
| 720 W | 109 W | 245 W | 109 W | 132 W | 326 W |
| 500 W | 82 W | 191 W | 82 W | 108 W | 272 W |
| 60A / 50A | 4A / 3A | 9A / 7A | 8A / 6A | 11A / 9A | 24A / 20A |
| <10 mA | <110 mA | <120 mA | <15 mA | <15 mA | <15 mA |

| | | | | | |
|--|-----------------------------|------------------------------|-----------------------------|----------------------------|----------------------------|
| 11.8"x3"x4.3" 300x76x110 mm | 3.5"x3.4"x2" 89x87x50 mm | 6.6"x3.4"x2" 167x87x50 mm | 3.5"x3.4"x2" 89x87x50 mm | 5"x3.4"x2" 127x87x50 mm | 5"x3.4"x2" 217x87x50 mm |
| 1.2 kg / 2.6 lbs | 290 gr / 0.6 lbs | 610 gr / 1.3 lbs | 415 gr / 0.9 lbs | 415 gr / 0.9 lbs | 765 gr / 1.7 lbs |
| CE, E-mark | CE, E-mark | CE, E-mark | CE, E-mark | CE, E-mark | CE, E-mark |
| no | no | no | no | no | no |
| yes | yes | yes | yes | yes | yes |
| fast-on | fast-on | fast-on | fast-on | fast-on | fast-on |
| -25°C-80°C, >30°C derating / -13°F-176°F, >86°F derating | | | | | |
| natural cooling | natural cooling | natural cooling | natural cooling | natural cooling | natural cooling |
| <30 dBA at 1 mtr | <30 dBA at 1 mtr | <30 dBA at 1 mtr | <30 dBA at 1 mtr | <30 dBA at 1 mtr | <30 dBA at 1 mtr |
| IP53 | IP53 | IP53 | IP53 | IP53 | IP53 |



24/12-12A
81500300



24/12-24A
81500350



24/24-3A
81500400



24/24-7A
81500500

| | | | |
|-----------|-----------|-----------|-----------|
| 24V | 24V | 24V | 24V |
| 20-32V DC | 20-32V DC | 20-32V DC | 20-32V DC |
| 13.6V | 13.6V | 27.2V | 27.2V |
| 245 W | 408 W | 109 W | 245 W |
| 164 W | 326 W | 82 W | 191 W |
| 18A / 12A | 24A / 30A | 4A / 3A | 9A / 7A |
| <10 mA | <10 mA | <25 mA | <25 mA |

| | | | |
|------------------------------|------------------------------|----------------------------|----------------------------|
| 6.6"x3.4"x2" 167x87x50 mm | 8.5"x3.4"x2" 217x87x50 mm | 5"x3.4"x2" 127x87x50 mm | 7"x3.4"x2" 185x87x50 mm |
| 590 gr / 1.3 lbs | 850 gr / 1.9 lbs | 590 gr / 1.3 lbs | 820 gr / 1.8 lbs |
| CE, E-mark | CE, E-mark | CE, E-mark | CE, E-mark |
| yes | yes | yes | yes |
| yes | yes | yes | yes |
| fast-on | fast-on | fast-on | fast-on |
| natural cooling | natural cooling | natural cooling | natural cooling |
| <30 dBA at 1 mtr | <30 dBA at 1 mtr | <30 dBA at 1 mtr | <30 dBA at 1 mtr |
| IP53 | IP53 | IP53 | IP53 |

Batteries, Chargers and Accessories: Mac & Magic Specifications





Mac 24/12-20



Magic 24/12-20



Magic 24/24-20

| Item # | 81200100 | 81300100 | 81300200 |
|--|---|---|---------------------------------|
| Specifications Input | | | |
| Nominal input voltage | 24V | 24V | 24V |
| Input range | 20-32V DC | 19-32V DC | 19-32V DC |
| Input range, 3-step charge mode | 24-32V DC | 24-32V DC | 24-32V DC |
| Lower input set point | 20V DC* | 20V DC* | 20V DC* |
| Delay lower input set point | 30 sec.* | 30 sec.* | 30 sec.* |
| Specifications Output | | | |
| Factory setting | 13.6V DC* | 13.6V DC* | 27.2V DC* |
| Voltage adjustable* | 10-15V DC | 10-15V DC | 20-28.5V DC |
| Output voltage dimmer* | 4-13V DC | 4-13V DC | 8-26V DC |
| Stabilized | 2% at extremes of temperatures, load and input | | |
| Ripple | max. 1% peak peak | max. 1% peak peak | max. 1% peak peak |
| Power (max./nominal) | 300 / 270 W | 300 / 300 W | 580 / 580 W |
| Max. current | 20A | 20A | 20A |
| Charge current 3-step mode | 16A | 16A | 16A |
| General Specifications | | | |
| Galvanic isolation | no | yes | yes |
| Voltage limited | yes | yes | yes |
| Efficiency | >90% (at nominal input voltage, full load); 92% peak | | |
| Protected against over load | yes | yes | yes |
| Protected against over temperature | yes | yes | yes |
| Dimmer function | yes, by external momentary switch via fast-on connection, to be activated by DIP-switch setting | | |
| Alarm contact | no | yes (fast-on connector) | yes (fast-on connector) |
| Dimensions, hwxwx d | 7.5"x5.1"x2.4" 190x130x61 mm | 8.9"x6.1"x3.2" 227x154x81 mm | 8.9"x6.1"x3.2" 227x154x81 mm |
| Weight | 1.0 kg / 2.2 lbs | 1.8 kg / 4 lbs | 1.8 kg / 4 lbs |
| Approvals | CE | CE | CE |
| Technical Specifications | | | |
| 3-Step charge option | yes (DIP switch settings) | yes (DIP switch settings) | yes (DIP switch settings) |
| DC consumption | <30 mA | <115 mA | <115 mA |
| Connections input/output | screw terminals, maximum wire size 16 mm ² / AWG5 | | |
| Temperature range (ambient temp.) | -25°C-80°C, >40°C derating / -13°F-176°F, >104°F derating | | |
| Cooling | natural cooling | maintenance free vario fans | |
| Sound level | <30 dBA at 1 mtr | <48 dBA at 1 mtr | <48 dBA at 1 mtr |
| Protection degree | IP21 | IP21 | IP21 |
| MasterBus compatible | yes, by means of MasterBus Serial Interface (Item # 77030450) | | |
| Options | | | |
| MasterView Easy 77010305 |  | Touch screen panel for reading status and dimmer function settings. | |
| MasterBus Serial Interface 77030450 |  | Integrates the Mac & Magic converters in a MasterBus network. | |

* Adjustable with MasterAdjust software.



Magic 12/12-20

81300400



Magic 12/24-10

81300300

12V

11□16V DC

12□16V DC

10V DC*

30 sec.*

13.6V DC*

10□15V DC

4□13V DC

max. 1% peak peak

300 / 300 W

20A

16A

yes

yes

yes

yes

yes (fast-on connector)

8.9"x6.1"x3.2"
227x154x81 mm

1.8 kg / 4 lbs

CE

yes (DIP switch settings)

<115 mA

maintenance free vario fans

<48 dBA at 1 mtr

IP21

12V

11□16V DC

12□16V DC

10V DC*

30 sec.*

27.2V DC*

20□28.5V DC

8□26V DC

max. 1% peak peak

300 / 300 W

10A

8A

yes

yes

yes

yes

yes (fast-on connector)

8.9"x6.1"x3.2"
227x154x81 mm

1.8 kg / 4 lbs

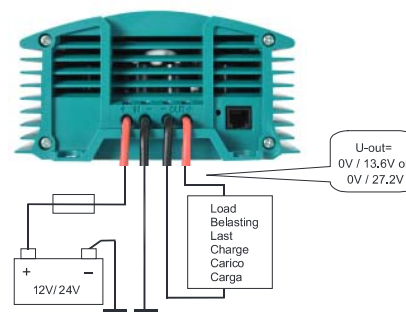
CE

yes (DIP switch settings)

<115 mA

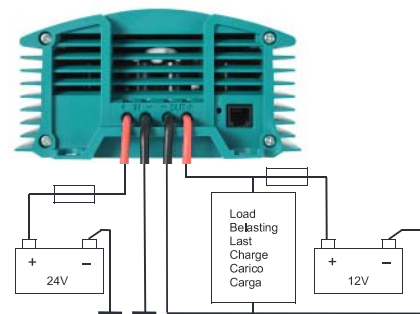
<48 dBA at 1 mtr

IP21



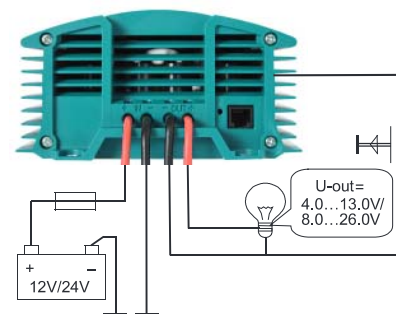
Magic as power supply

The Magic models can be fully used as a stabilized power supply: From 12□24V, from 24□12V or from 24□24V. Inputs and outputs are galvanically isolated.



Mac & Magic as battery charger

A 12V starter or emergency power battery can be charged as well as maintained by Mac or Magic units. The charging method is identical to the Mass 3-step with voltage levels adjustable by means of MasterBus PC-Link/MasterAdjust software.



Mac & Magic as dimmer

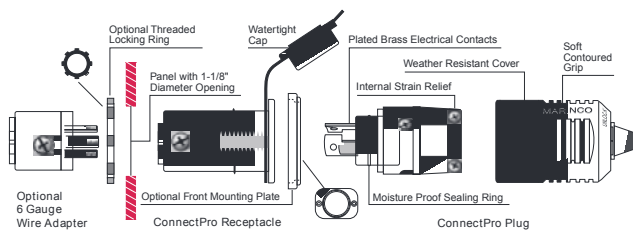
Light can be dimmed by means of a push button or plus switch, with a maximum load of 250 Watt for the Mac. A second Mac can be installed if there are multiple lamps.

Plugs & Receptacles

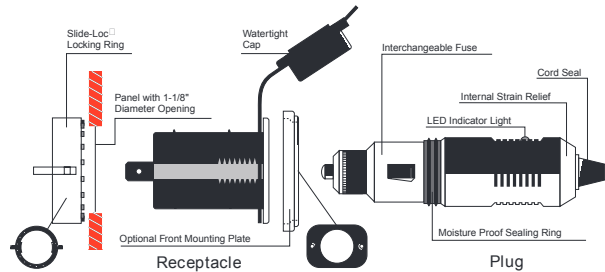


- Delivers More Power to Equipment
- UPremium-quality DC Plugs & Receptacles
- UExpanded product life and superior electrical conductivity for accessories
- UPatented locking blades and a large contact area which reduces the temperature of the devices
- ULeaf-spring contacts give longer life when repeated disconnects are required
- UConnectPro connections are weather resistant and corrosion resistant
- USuitable for on and off road vehicles in construction, farming, industrial or utility applications
- UAll electrical components are plated brass
- UThe receptacle fits into a standard 1-1/8" diameter mounting hole
- UAccepts 2- or 3-wire configurations, up to 8 gauge
- UWith the 12VBRAD adapter, it can accept up to 6 gauge wire
- UReceptacle is easy to install using the supplied mounting plate for front panel installation
- UOptional locking-ring for rear access installation

ConnectPro[®] Charging & Trolling



ConnectTite[®] 12 Volt



ConnectPro[®] system has superior electric current carrying capacity. It features locking plug and receptacle with spring clamping connections which provide a secure electrical contact.

Exclusive to ConnectTite[®] products is a unique interconnecting system that securely locks the plug into the receptacle resulting in a positive and moisture-proof connection.

2-Wire ConnectPro[®] Charging or Accessory



5 YEAR WARRANTY

ConnectPro[®] Receptacle

- UWorks with 12, 24, or 36 volt 2-wire systems
- UFor front mount panel installations
- UWeather resistant sealing cap
- UDrain holes in receptacle keep water away from electrical components
- UPerma-Lock[®] screw terminals will not loosen under extreme hull vibration
- UFits standard 1-1/8" diameter mounting hole
- UAccepts up to 10 gauge wire

Item # 12VBRS2
OEM # 12VBRS2.OEM

ConnectPro[®] Plug

- UO-ring seal for waterproof connections
- UWeather resistant plug cover
- UCorrosion resistant, plated brass electrical components
- UAccepts 16 to 8 gauge wire
- UErgonomic contoured grip for easy hook-up and ground blade alignment
- UMax. rating is 40 amps

Item # 12VBPS2
OEM # 12VBPS2.OEM

ConnectPro[®] Receptacle & Plug

- UIncludes 12VBRS2 and 12VBPS2 packaged together

Item # 12VCPS2

3-Wire ConnectPro[®] Charging / Trolling System



PATENTED

ConnectPro[®] Receptacle

- U Universal design for 2 or 3-wire configuration 12, 24, 12/24, 24/36 or 36 volt systems
- U Watertight sealing cap
- U Corrosion resistant, plated brass electrical components
- U Drain holes in receptacle keep water away from electrical components
- U Perma-Lock[®] screw terminals will not loosen under extreme vibration
- U Standard 1-1/8" diameter mounting hole
- U Easy to install, with supplied mounting plate for front panel installation, or locking ring for rear access installation
- U Accepts 10 and 8 gauge wire
- U Easily replaces other trolling motor plugs and receptacles

Item # 12VBR
 Item # 12VBR.PG w/ gasket
 OEM # 12VBR.OEM
 w/ Old Style Ring
 Item # 12VBRO

Mounting plate not included with 12VBR.OEM



ConnectPro[®] Plug

- U O-ring seal for waterproof connections
- U Weather resistant plug cover
- U Corrosion resistant, plated brass electrical components
- U Accepts 16 to 8 gauge wire
- U Ergonomic contoured grip for easy hook-up and ground blade alignment

Item # 12VBPS
 OEM # 12VBPS.OEM



ConnectPro[®] Receptacle & Plug

- U Includes 12VBR and 12VBP packaged together

Item # 12VCP



6 Gauge ConnectPro[®] Wire Receptacle Adapter

- U Allows 6 gauge wire connection to ConnectPro[®] receptacle
- U Corrosion resistant, plated brass electrical components

Item # 12VBRAD
 OEM # 12VBRAD.OEM



ConnectPro[®] Receptacle, Plug & 6 Gauge Adapter

- U Includes 12VBR and 12VBP and 12VBRAD packaged together
- U Max. rating is 40 amps

Item # 12VCP6

Dimensions



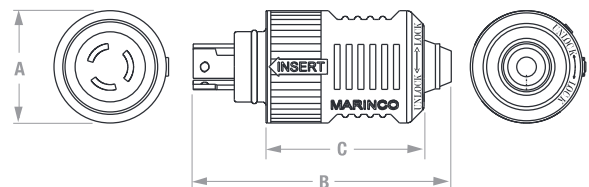
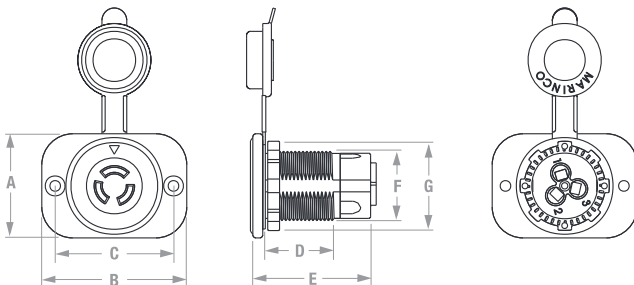
12VBR & 12VBRS2

| A | B | C | D | E | F | G |
|-------|-------|-------|-------|-------|-------|-------|
| 1.68" | 2.34" | 1.91" | 1.11" | 1.90" | 1.12" | 1.44" |



12VBPS & 12VBPS2

| A | B | C |
|-------|-------|-------|
| 1.42" | 3.30" | 2.00" |



DC Devices: ConnectTite® Plugs & Receptacles



12V Receptacle

- U Watertight sealing cap
- U Easy to install, use supplied mounting plate (Not included with 12VRC.OEM) for front panel installation, or Slide-Loc® for rear access installation

Item # 12VRC
OEM # 12VRC.OEM



12V Snap-in Receptacle

- U Snap-in design, fits a wide variety of panel thicknesses
- U Tabs mate with standard Packard terminals and connector bodies
- U Unique punch/cut-out design eliminates device turning or twist-out when removing plug
- U Fits standard hole pattern
- U Includes ConnectTite locking feature

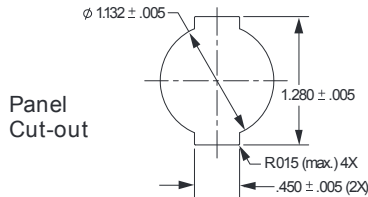
OEM # 12VRCSP.OEM



Deluxe 12 Volt Receptacle w/ Old Style Ring

- U Watertight sealing cap
- U Easy to install, with locking ring for rear access installation
- U Compatible with standard 12V plugs

OEM # 12VRCO
OEM # 12VRCO.PG w/ gasket



Receptacle Mounting Bracket

- U Bracket mounts under the panel or on any flat surface for simple OEM installation or retrofit
- U 2" wide x 2.5" tall
- U Mounting screws included
- U Easy to install or retrofit
- U Use with 12VRC.OEM, 12VRCO or 12VBR.OEM

Item # 12BKT



Mounting Plate

- U Easy to install or retrofit
- U Use with 12VRC.OEM, 12VRCO or 12VBR.OEM

OEM # 12MP.OEM



12V Plug

- U Moisture-proof sealing ring
- U Green LED power indicator light
- U Interchangeable 10 amp fuse
- U Internal strain relief and cord seal
- U Glass-filled nylon housing
- U Current-carrying parts and knurl nut are nickel-plated copper alloy
- U Compatible with standard 12V receptacle
- U Max rating is 10 amps

Item # 12VPG
OEM # 12VPG.OEM



Specification-Grade 6' 12V Extension Cord

- U 6' of super flexible 18 gauge cable
- U Receptacle is fully-enclosed in soft PVC with a watertight sealing cap
- U Plug features an LED indicator light, moisture-proof sealing ring, strain relief and built-in 10A fuse
- U 10A rated, 10A fused
- Item # 12VXT



Specification-Grade Dual Outlet Extension Cord

- U Dual outlets, each on its own one foot super flexible 18 gauge cable
- U Receptacle is fully-enclosed in soft PVC with a watertight sealing cap
- U Plug features an LED indicator light, moisture-proof sealing ring, strain relief and built-in 10A fuse
- U 10A rated, 10A fused
- Item # 12VAD

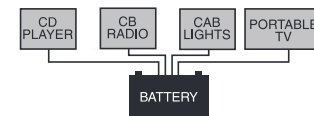


Direct Connect® Multi Connection Battery Terminals

- U Wire electronic instruments directly to the battery maximizing clarity by virtually eliminating interference
- U Terminate up to four electronic instruments on each set of terminals
- U Comes complete with quick-connect terminals
- U All one piece, no screws or parts to lose
- U No tools necessary
- U Cover snaps tight when closed

Item # 12VTR

OEM # 12VTR.OEM



Boot

- U For use with 12V products
- U Creates a weatherproof seal
- Item # 300275

Cross Reference: Wiring Devices

| COOPER | LEVITON | HUBBELL | MARINCO |
|-----------|----------|-----------|----------|
| CS6360EX | CS63-60C | CS6360C | CS6360N |
| CS6361EX | CS63-61C | CS6361C | CS6361N |
| CS6364EX | CS63-64C | CS6364C | CS6364N |
| CS6365EX | CS63-65C | CS6365C | CS6365N |
| CS6369 | CS63-69 | CS6369 | CS6369 |
| CS6370 | CS63-70 | CS6370 | CS6370 |
| CS6375 | CS63-75 | CS6375 | CS6375 |
| CS6376 | □ | □ | CS6375FL |
| CS8164EX | CS81-64C | CS8164C | CS8164N |
| CS8165EX | CS81-65C | CS8165C | CS8165N |
| CS8169 | CS81-69 | CS8169 | CS8169 |
| CS8175 | CS81-75 | CS8175 | CS8175 |
| CS8264EX | CS82-64C | CS8264C | CS8264N |
| CS8265EX | CS82-65C | CS8265C | CS8265N |
| CS8269 | CS82-69 | CS8269 | CS8269 |
| CS8275 | CS82-75 | CS8275 | CS8275 |
| CS8364EX | CS83-64C | CS8364C | CS8364N |
| CS8365EX | CS83-65C | CS8365C | CS8365N |
| CS8369 | CS83-69 | CS8369 | CS8369 |
| CS8375 | CS83-75 | CS8375 | CS8375 |
| CS8464EX | CS84-64C | CS8464C | CS8464N |
| CS8465EX | CS84-65C | CS8465C | CS8465N |
| CS8469 | CS84-69 | CS8469 | CS8469 |
| WP1 | WP1 | WP1 | WP1 |
| □ | □ | □ | 15RA |
| □ | □ | □ | 103RN |
| □ | □ | □ | 110R |
| □ | □ | □ | 152AY |
| □ | □ | □ | 153AY |
| □ | □ | □ | 157AY |
| CWL520C | 2313 | HBL2313 | 205C |
| CWL520CBK | 2313-B | HBL2313BK | 205CBL |
| □ | □ | □ | 205CL |
| CWL520FI | 2315 | HBL2315 | 205FI |
| CWL520FO | 2316 | HBL2316 | 205FO |
| CWL520P | 2311 | HBL2311 | 205P |
| CWL520PBK | 2311-B | HBL2311BK | 205PBL |
| □ | □ | □ | 205PL |
| CWL520R | 2310 | HBL2310 | 205R |
| IGL520R | 2310-IG | IG2310 | 205RIG |
| CWL620C | 2323 | HBL2323 | 206C |
| □ | 2323-B | HBL2323BK | 206CBL |
| CWL620FI | 2325 | HBL2325 | 206FI |
| CWL620FO | 2326 | HBL2326 | 206FO |
| CWL620P | 2321 | HBL2321 | 206P |
| □ | 2321-B | HBL2321BK | 206PBL |
| CWL620R | 2320 | HBL2320 | 206R |
| IGL620R | 2320-IG | IG2320 | 206RIG |
| CWL720P | 2331 | HBL2331 | 207P |
| CWL1420C | 2413 | HBL2413 | 2014C |
| CWL1420FI | 2415 | HBL2415 | 2014FI |
| CWL1420FO | 2416 | HBL2416 | 2014FO |
| CWL1420P | 2411 | HBL2411 | 2014P |
| CWL1420R | 2410 | HBL2410 | 2014R |
| CWL1520C | 2423 | HBL2423 | 2015C |
| CWL1520FI | 2425 | HBL2425 | 2015FI |
| CWL1520FO | 2426 | HBL2426 | 2015FO |

| COOPER | LEVITON | HUBBELL | MARINCO |
|-----------|---------|-----------|----------|
| CWL1520P | 2421 | HBL2421 | 2015P |
| CWL1520R | 2420 | HBL2420 | 2015R |
| CWL1620C | 2433 | HBL2433 | 2016C |
| CWL1620P | 2431 | HBL2431 | 2016P |
| CWL1620R | 2430 | HBL2430 | 2016R |
| CWL2120C | 2513 | HBL2513 | 2021C |
| CWL2120FO | 2516 | HBL2516 | 2021FO |
| CWL2120P | 2511 | HBL2511 | 2021P |
| CWL2120R | 2510 | HBL2510 | 2021R |
| □ | □ | □ | 2030FL |
| CWL530C | 2613 | HBL2613 | 305C |
| CWL530FI | 2615 | HBL2615 | 305FI |
| CWL530FO | 2616 | HBL2616 | 305FO |
| CWL530P | 2621 | HBL2621 | 305P |
| CWL530R | 2610 | HBL2610 | 305R |
| IGL530R | 2610-IG | IG2610 | 305RIG |
| □ | □ | □ | 320IEC13 |
| □ | □ | □ | 320IEC15 |
| □ | □ | H320C | 320IEC19 |
| CWL1430C | 2713 | HBL2713 | 3014C |
| CWL1430FI | 2715 | HBL2715 | 3014FI |
| CWL1430FO | 2716 | HBL2716 | 3014FO |
| CWL1430P | 2711 | HBL2711 | 3014P |
| CWL1430R | 2710 | HBL2710 | 3014R |
| CWL1530C | 2723 | HBL2723 | 3015C |
| CWL1530FI | 2725 | HBL2725 | 3015FI |
| CWL1530FO | 2726 | HBL2726 | 3015FO |
| CWL1530P | 2721 | HBL2721 | 3015P |
| CWL1530R | 2720 | HBL2720 | 3015R |
| CWL1630C | 2733 | HBL2733 | 3016C |
| CWL1630FO | 2736 | HBL2736 | 3016FO |
| CWL1630P | 2731 | HBL2731 | 3016P |
| CWL1630R | 2730 | HBL2730 | 3016R |
| CWL2130C | 2813 | HBL2813 | 3021C |
| CWL2130FO | 2816 | HBL2816 | 3021FO |
| CWL2130P | 2811 | HBL2811 | 3021P |
| CWL2130R | 2810 | HBL2810 | 3021R |
| 3762EX | 3762-C | HBL3762C | 3762N |
| 3763EX | 3763-C | HBL3763C | 3763N |
| 3764EX | 3764-C | HBL3764C | 3764N |
| 3765EX | 3765-C | HBL3765C | 3765N |
| 3769 | 3769 | HBL3769 | 3769 |
| 3771 | 3771 | HBL3771 | 3771 |
| 3775 | 3775 | HBL3775 | 3775 |
| 3777 | 3777 | HBL3777 | 3777 |
| 6580 | 4550 | HBL4550 | 4550 |
| CWL615R | 4560 | HBL4560 | 4560 |
| CWL615P | 4570-C | HBL4570C | 4570 |
| CWL615C | 4579-C | HBL4579C | 4579 |
| CWL615FO | 4585-C | HBL4585C | 4585 |
| CWL615FI | 4586-C | HBL4586C | 4586 |
| 4700 | 4700 | HBL4700 | 4700 |
| CR4700 | □ | HBL47CM00 | 4700CR |
| CWL515R | 4710 | HBL4710 | 4710 |
| CWL515FO | 4715-C | HBL4715C | 4715 |
| CWL515FI | 4716-C | HBL4716C | 4716 |
| CWL515P | 4720-C | HBL4720C | 4720 |

Chart is for reference only. User is responsible to verify form, □ and function with actual application.

| COOPER | LEVITON | HUBBELL | MARINCO |
|--------------------------|--------------------------|--------------------------|---------|
| <input type="checkbox"/> | 4720-CB | HBL4720CBK | 4720BL |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4720L |
| CWL515C | 4729-C | HBL4729C | 4729 |
| - | 4729-CB | HBL4729CBK | 4729BL |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4729L |
| CWL715R | 4760 | HBL4760 | 4760 |
| CWL715P | 4770-C | HBL4770C | 4770 |
| CWL715C | 4779-C | HBL4779C | 4779 |
| CWL715FO | 4785-C | HBL4785C | 4785 |
| CWL715FI | 4786-C | HBL4786C | 4786 |
| <input type="checkbox"/> | 510-R | <input type="checkbox"/> | 510R |
| AH5262 | 5262 | HBL5262 | 5252 |
| <input type="checkbox"/> | 52CM-62 | HBL52CM62 | 5262CRR |
| 6266 | 5266-C | HBL5266C | 5266 |
| 6266BLK | 5266-CB | HBL5266EBK | 5266BL |
| <input type="checkbox"/> | 52CM-66C | HBL52CM66C | 5266CRS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5266L |
| 6265 | 5266-CA | HBL5266CA | 5266RA |
| 6269 | 5269-C | HBL5269C | 5269 |
| 6269BLK | 5269-CB | HBL5269EBK | 5269BL |
| <input type="checkbox"/> | 52CM-69C | HBL52CM69C | 5269CR |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5269L |
| 5278C | 5278-C | HBL5278C | 5278 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5278BL |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5278DRI |
| 5279C | 5279-C | HBL5279C | 5279 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5279BL |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5279DRO |
| AH5362 | 5362 | HBL5362 | 5352 |
| 6766 | 5366-C | HBL5366C | 5366 |
| 6769 | 5369-C | HBL5369C | 5369 |
| <input type="checkbox"/> | 53CM-69C | HBL53CM69C | 5369CR |
| 5778C | 15378-C | HBL5378C | 5378 |
| 5779C | 15379-C | HBL5379C | 5379 |
| 5462 | <input type="checkbox"/> | <input type="checkbox"/> | 5462 |
| 6866 | 5466-C | HBL5466C | 5466 |
| 6869 | 5469-C | HBL5469C | 5469 |
| 5878C | 5478-C | HBL5478C | 5478 |
| 5879C | 5479-C | HBL5479C | 5479 |
| 6666 | 5666-C | HBL5666C | 5666 |
| 6669 | 5669-C | HBL5669C | 5669 |
| 5678C | 15678-C | HBL5678C | 5678 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5678DRI |
| 5679C | 15679-C | HBL5679C | 5679 |
| <input type="checkbox"/> | 6017 | HBL6017 | 6017 |
| BS1 | 6017-Y | HBL60CM17 | 6017Y |
| <input type="checkbox"/> | 6018 | HBL6018 | 6018 |
| BS2 | 6018-Y | HBL60CM18 | 6018Y |
| 63CR60EX | 6360-CR | <input type="checkbox"/> | 6360CRN |
| 63CR61EX | 6361-CR | <input type="checkbox"/> | 6361CRN |
| 63CR64EX | 6364-CR | <input type="checkbox"/> | 6364CRN |
| 63CR65EX | 6365-CR | <input type="checkbox"/> | 6365CRN |
| 7413C | 7411-C | HBL7411C | 7411C |
| 7411C | 7413-C | HBL7413C | 7413C |
| 77CR15 | 7715-CR | HBL77CM15 | 7715CRN |
| 7717 | 7717-CR | HBL7717C | 7717N |
| 7764EX | 7764-C | HBL7764C | 7764N |

| COOPER | LEVITON | HUBBELL | MARINCO |
|--------------------------|--------------------------|--------------------------|---------|
| 7765EX | 7765-C | HBL7765C | 7765N |
| 7958 | <input type="checkbox"/> | HBL7958 | 7958 |
| 6266HG | 8215-C | HBL8215C | 8215 |
| 6266HGC | 8215-CT | HBL8215CT | 8215T |
| <input type="checkbox"/> | 8215-PLC | <input type="checkbox"/> | 8215TL |
| 6265HGC | 8215-CAT | HBL8215CAT | 8215TRA |
| 6269HG | 8219-C | HBL8219C | 8219 |
| 6269HGC | 8219-CT | HBL8219CT | 8219T |
| <input type="checkbox"/> | 8219-PLC | <input type="checkbox"/> | 8219TL |

Chart is for reference only. User is responsible to verify form, and function with actual application.

CL, CLS Series Inline Devices

| Description | M/F | Color | Leviton | Cooper Crouse-Hinds | Hubbell | Marinco CL Series (2 pc Hard Shell) | Marinco CLS Series NEMA 3R & 4 (Rubber) |
|---------------------------------|--------|--------|--------------------------|--------------------------|--------------------------|---|--|
| #6-#2 Inline Cam Connector | Male | Black | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2MB-A | CLS2MB-A |
| | | White | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2MB-B | CLS2MB-B |
| | | Red | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2MB-C | CLS2MB-C |
| | | Blue | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2MB-D | CLS2MB-D |
| | | Green | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2MB-E | CLS2MB-E |
| | | Brown | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2MB-F | CLS2MB-F |
| | | Orange | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2MB-G | CLS2MB-G |
| | | Yellow | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2MB-H | CLS2MB-H |
| | Female | Black | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2FB-A | CLS2FB-A |
| | | White | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2FB-B | CLS2FB-B |
| | | Red | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2FB-C | CLS2FB-C |
| | | Blue | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2FB-D | CLS2FB-D |
| | | Green | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2FB-E | CLS2FB-E |
| | | Brown | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2FB-F | CLS2FB-F |
| | | Orange | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2FB-G | CLS2FB-G |
| | | Yellow | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CL2FB-H | CLS2FB-H |
| #2-2/0 Inline Cam Connector | Male | Black | 16D22-E | E1016-8350 | HBL300MBK | CL20MB-A | CLS20MB-A |
| | | White | 16D22-W | E1016-8355 | HBL300MW | CL20MB-B | CLS20MB-B |
| | | Red | 16D22-R | E1016-8352 | HBL300MR | CL20MB-C | CLS20MB-C |
| | | Blue | 16D22-B | E1016-8356 | HBL300MBL | CL20MB-D | CLS20MB-D |
| | | Green | 16D22-G | E1016-8354 | HBL300MGN | CL20MB-E | CLS20MB-E |
| | | Brown | 16D22-H | E1016-8357 | HBL300MBN | CL20MB-F | CLS20MB-F |
| | | Orange | 16D22-O | E1016-8353 | HBL300MO | CL20MB-G | CLS20MB-G |
| | | Yellow | 16D22-Y | E1016-8351 | HBL300MY | CL20MB-H | CLS20MB-H |
| | Female | Black | 16D31-E | E1016-8375 | HBL300FBK | CL20FB-A | CLS20FB-A |
| | | White | 16D31-W | E1016-8380 | HBL300FW | CL20FB-B | CLS20FB-B |
| | | Red | 16D31-R | E1016-8377 | HBL300FR | CL20FB-C | CLS20FB-C |
| | | Blue | 16D31-B | E1016-8381 | HBL300FBL | CL20FB-D | CLS20FB-D |
| | | Green | 16D31-G | E1016-8379 | HBL300FGN | CL20FB-E | CLS20FB-E |
| | | Brown | 16D31-H | E1016-8382 | HBL300FBN | CL20FB-F | CLS20FB-F |
| | | Orange | 16D31-O | E1016-8378 | HBL300FO | CL20FB-G | CLS20FB-G |
| | | Yellow | 16D31-Y | E1016-8376 | HBL300FY | CL20FB-H | CLS20FB-H |
| 2/0-4/0 Inline Cam Connector | Male | Black | 16D24-E | E1016-8362 | HBL400MBK | CL40MB-A | CLS40MB-A |
| | | White | 16D24-W | E1016-8367 | HBL400MW | CL40MB-B | CLS40MB-B |
| | | Red | 16D24-R | E1016-8364 | HBL400MR | CL40MB-C | CLS40MB-C |
| | | Blue | 16D24-B | E1016-8368 | HBL400MBL | CL40MB-D | CLS40MB-D |
| | | Green | 16D24-G | E1016-8366 | HBL400MGN | CL40MB-E | CLS40MB-E |
| | | Brown | 16D24-H | E1016-8369 | HBL400MBN | CL40MB-F | CLS40MB-F |
| | | Orange | 16D24-O | E1016-8365 | HBL400MO | CL40MB-G | CLS40MB-G |
| | | Yellow | 16D24-Y | E1016-8363 | HBL400MY | CL40MB-H | CLS40MB-H |
| | Female | Black | 16D33-E | E1016-8387 | HBL400FBK | CL40FB-A | CLS40FB-A |
| | | White | 16D33-W | E1016-8392 | HBL400FW | CL40FB-B | CLS40FB-B |
| | | Red | 16D33-R | E1016-8389 | HBL400FR | CL40FB-C | CLS40FB-C |
| | | Blue | 16D33-B | E1016-8393 | HBL400FBL | CL40FB-D | CLS40FB-D |
| | | Green | 16D33-G | E1016-8391 | HBL400FGN | CL40FB-E | CLS40FB-E |
| | | Brown | 16D33-H | E1016-8394 | HBL400FBN | CL40FB-F | CLS40FB-F |
| | | Orange | 16D33-O | E1016-8390 | HBL400FO | CL40FB-G | CLS40FB-G |
| | | Yellow | 16D33-Y | E1016-8388 | HBL400FY | CL40FB-H | CLS40FB-H |

Chart is for reference only. User is responsible to verify form, and function with actual application.

CLS Panel Mounts

| Description | M/F | Color | Leviton | Cooper Crouse-Hinds | Hubbell | Marinco |
|--|---------|-------------|-------------|------------------------|--------------|--------------|
| 1-1/4" Panel Mount Threaded Stud | Male | Black | 16R23-E | E1016-1600S | HBLFRSBK | CLS40MRSB-AX |
| | | White | 16R23-W | E1016-1605S | HBLFRSW | CLS40MRSB-BX |
| | | Red | 16R23-R | E1016-1602S | HBLFRSR | CLS40MRSB-CX |
| | | Blue | 16R23-B | E1016-1612S | HBLFRSBL | CLS40MRSB-DX |
| | | Green | 16R23-G | E1016-1604S | HBLFRSGN | CLS40MRSB-EX |
| | | Brown | 16R23-H | E1016-1619S | HBLFRSBN | CLS40MRSB-FX |
| | | Orange | 16R23-O | E1016-1603S | HBLFRSO | CLS40MRSB-GX |
| | Yellow | 16R23-Y | E1016-1601S | HBLFRSY | CLS40MRSB-HX | |
| | Female | Black | 16R24-E | E1016-1631S | HBLMRSBK | CLS40FRSB-AX |
| | | White | 16R24-W | E1016-1636S | HBLMRSW | CLS40FRSB-BX |
| | | Red | 16R24-R | E1016-1633S | HBLMRSR | CLS40FRSB-CX |
| | | Blue | 16R24-B | E1016-1643S | HBLMRSBL | CLS40FRSB-DX |
| | | Green | 16R24-G | E1016-1635S | HBLMRSGN | CLS40FRSB-EX |
| | | Brown | 16R24-H | E1016-1687S | HBLMRSBN | CLS40FRSB-FX |
| Orange | | 16R24-O | E1016-1634S | HBLMRSO | CLS40FRSB-GX | |
| Yellow | 16R24-Y | E1016-1632S | HBLMRSY | CLS40FRSB-HX | | |
| Panel Mount Double Set Screw | Male | Black | 16R21-E | E1016-1700 | HBLFRBK | CLS40MRB-AX |
| | | White | 16R21-W | E1016-1705 | HBLFRW | CLS40MRB-BX |
| | | Red | 16R21-R | E1016-1702 | HBLFRR | CLS40MRB-CX |
| | | Blue | 16R21-B | E1016-1706 | HBLFRBL | CLS40MRB-DX |
| | | Green | 16R21-G | E1016-1704 | HBLFRGN | CLS40MRB-EX |
| | | Brown | 16R21-H | E1016-1707 | HBLFRBN | CLS40MRB-FX |
| | | Orange | 16R21-O | E1016-1703 | HBLFRO | CLS40MRB-GX |
| | Yellow | 16R21-Y | E1016-1701 | HBLFRY | CLS40MRB-HX | |
| | Female | Black | 16R22-E | E1016-1725 | HBLMRBK | CLS40FRB-AX |
| | | White | 16R22-W | E1016-1730 | HBLMRW | CLS40FRB-BX |
| | | Red | 16R22-R | E1016-1727 | HBLMRR | CLS40FRB-CX |
| | | Blue | 16R22-B | E1016-1731 | HBLMRBL | CLS40FRB-DX |
| | | Green | 16R22-G | E1016-1729 | HBLMRGN | CLS40FRB-EX |
| | | Brown | 16R22-H | E1016-1732 | HBLMRBN | CLS40FRB-FX |
| Orange | | 16R22-O | E1016-1728 | HBLMRO | CLS40FRB-GX | |
| Yellow | 16R22-Y | E1016-1726 | HBLMRY | CLS40FRB-HX | | |

Busbar Mounts & Adapters

| Description | M/F | Color | Leviton | Cooper Crouse-Hinds | Hubbell | Marinco |
|--------------------------------|------------------|--------|---------|------------------------|----------|-----------------|
| Angle Terminal Panel Mount | Female | Black* | 16F21-E | E1016-575 | □ | CL40FR-ANGLE-A |
| Offset Terminal Panel Mount | Female | Black* | 16F22-E | E1016-625 | □ | CL40FR-OFFSET-A |
| Paralleling T | - | Black* | 16A21-E | E1016-2324 | HBLPTBK | CPT |
| Tapping T | Female | Black* | 16A22-E | E1016-2312 | HBLTBK | CTT |
| 3fer | - | Black* | 16A23-E | E1016-9500 | HBLM3FBK | CA3F |
| Turnaround | Female to Female | Black* | 16A24-E | E1016-2352 | HBLDFBK | CDFF |
| | Male to Male | Black* | 16A25-E | E1016-2382 | HBLDMBK | CDMM |

*Other colors available

"Mini" Inline Cam Adapters

| Description | M/F | Color | Leviton | Cooper Crouse-Hinds | Hubbell | Marinco |
|---------------|------------------|--------|---------|------------------------|-----------|---------|
| Paralleling T | □ | Black* | 15A21-E | E1015-2324 | HBL15PTBK | CLMPT-A |
| Tapping T | Female | Black* | 15A22-E | E1015-2312 | HBL15TBK | CLMTT-A |
| Turnaround | Female to Female | Black* | 15A23-E | E1015-2352 | HBL15DFBK | CLMFF-A |
| | Male to Male | Black* | □ | E1015-2362 | HBL15DMBK | CLMMM-A |

*Other colors available

CLM □Mini□Inline Devices & Panel Mounts

| Description | M/F | Color | Leviton | Cooper Crouse-Hinds | Hubbell | Marinco CLM Mini Series (hard plastic) | Marinco CLM Mini Series (rubber) | |
|--|--------|--------|---------|------------------------|------------|---|---|-----------|
| 150A Mini Inline | Male | Black | 15D21-E | E1015-8306 | HBL15MBK | □ | CLM2M-A | |
| | | White | 15D21-W | E1015-8311 | HBL15MW | □ | CLM2M-B | |
| | | Red | 15D21-R | E1015-8308 | HBL15MR | □ | CLM2M-C | |
| | | Blue | 15D21-B | E1015-8313 | HBL15MBL | □ | CLM2M-D | |
| | | Green | 15D21-G | E1015-8310 | HBL15MGN | □ | CLM2M-E | |
| | | Brown | 15D21-H | E1015-8314 | □ | □ | CLM2M-F | |
| | | Orange | 15D21-O | E1015-8309 | □ | □ | CLM2M-G | |
| | | Yellow | 15D21-Y | E1015-8307 | □ | □ | CLM2M-H | |
| | Female | Black | 15D22-E | E1015-8331 | HBL15FBK | □ | CLM2F-A | |
| | | White | 15D22-W | E1015-8336 | HBL15FW | □ | CLM2F-B | |
| | | Red | 15D22-R | E1015-8333 | HBL15FR | □ | CLM2F-C | |
| | | Blue | 15D22-B | E1015-8338 | HBL15FBL | □ | CLM2F-D | |
| | | Green | 15D22-G | E1015-8335 | HBL15FGN | □ | CLM2F-E | |
| | | Brown | 15D22-H | E1015-8339 | □ | □ | CLM2F-F | |
| | | Orange | 15D22-O | E1015-8334 | □ | □ | CLM2F-G | |
| | | Yellow | 15D22-Y | E1015-8332 | □ | □ | CLM2F-H | |
| 150A Mini Panel Mount Threaded Stud | Male | Black | 15R21-E | E1015-1600 | HBL15MRSBK | CLMMRS-A | CLSMMRS-A | |
| | | White | 15R21-W | E1015-1605 | HBL15MRSW | CLMMRS-B | CLSMMRS-B | |
| | | Red | 15R21-R | E1015-1602 | HBL15MRSR | CLMMRS-C | CLSMMRS-C | |
| | | Blue | 15R21-B | E1015-1606 | HBL15MRSBL | CLMMRS-D | CLSMMRS-D | |
| | | Green | 15R21-G | E1015-1604 | HBL15MRSGN | CLMMRS-E | CLSMMRS-E | |
| | | Brown | 15R21-H | E1015-1607 | □ | CLMMRS-F | CLSMMRS-F | |
| | | Orange | 15R21-O | E1015-1603 | □ | CLMMRS-G | CLSMMRS-G | |
| | | Yellow | 15R21-Y | E1015-1601 | □ | CLMMRS-H | CLSMMRS-H | |
| | Female | Black | 15R22-E | E1015-1625 | HBL15FRSBK | CLMFRS-A | CLSMFRS-A | |
| | | White | 15R22-W | E1015-1630 | HBL15FRSW | CLMFRS-B | CLSMFRS-B | |
| | | Red | 15R22-R | E1015-1627 | HBL15FRSR | CLMFRS-C | CLSMFRS-C | |
| | | Blue | 15R22-B | E1015-1631 | HBL15FRSBL | CLMFRS-D | CLSMFRS-D | |
| | | Green | 15R22-G | E1015-1629 | HBL15FRSGN | CLMFRS-E | CLSMFRS-E | |
| | | Brown | 15R22-H | E1015-1632 | □ | CLMFRS-F | CLSMFRS-F | |
| | | Orange | 15R22-O | E1015-1628 | □ | CLMFRS-G | CLSMFRS-G | |
| | | Yellow | 15R22-Y | E1015-1626 | □ | CLMFRS-H | CLSMFRS-H | |
| 150A Mini Panel Mount Double Set Screw | Male | Black | □ | □ | HBL15MRBK | CLMMR2-A | CLSMMR2-A | |
| | | White | □ | □ | HBL15MRW | CLMMR2-B | CLSMMR2-B | |
| | | Red | □ | □ | HBL15MRR | CLMMR2-C | CLSMMR2-C | |
| | | Blue | □ | □ | HBL15MRBL | CLMMR2-D | CLSMMR2-D | |
| | | Green | □ | □ | HBL15MRGN | CLMMR2-E | CLSMMR2-E | |
| | | Brown | □ | □ | □ | CLMMR2-F | CLSMMR2-F | |
| | | Orange | □ | □ | □ | CLMMR2-G | CLSMMR2-G | |
| | | Yellow | □ | □ | □ | CLMMR2-H | CLSMMR2-H | |
| | Female | Black | □ | □ | □ | HBL15FRBK | CLMFR2-A | CLSMFR2-A |
| | | White | □ | □ | □ | HBL15FRW | CLMFR2-B | CLSMFR2-B |
| | | Red | □ | □ | □ | HBL15FRR | CLMFR2-C | CLSMFR2-C |
| | | Blue | □ | □ | □ | HBL15FRBL | CLMFR2-D | CLSMFR2-D |
| | | Green | □ | □ | □ | HBL15FRGN | CLMFR2-E | CLSMFR2-E |
| | | Brown | □ | □ | □ | □ | CLMFR2-F | CLSMFR2-F |
| | | Orange | □ | □ | □ | □ | CLMFR2-G | CLSMFR2-G |
| | | Yellow | □ | □ | □ | □ | CLMFR2-H | CLSMFR2-H |

| | | | | | | | |
|-------------------|--------|-------------------|-------|---------------|----|------------------|----|
| 100F _____ | 36 | 12VPG _____ | 90 | 2014C _____ | 15 | 206R _____ | 15 |
| 100FR _____ | 37 | 12VPG.OEM _____ | 90 | 2014FI _____ | 15 | 206RIG _____ | 15 |
| 100FR-DSS _____ | 37 | 12VRC _____ | 90 | 2014FO _____ | 15 | 207P _____ | 15 |
| 100M _____ | 36 | 12VRC.OEM _____ | 90 | 2014P _____ | 15 | 20F _____ | 36 |
| 100MR _____ | 37 | 12VRCO _____ | 90 | 2014R _____ | 15 | 20F-AW _____ | 36 |
| 100MR-DSS _____ | 37 | 12VRCO.PG _____ | 90 | 2015C _____ | 15 | 20F-RT _____ | 36 |
| 100R _____ | 25 | 12VRCSP.OEM _____ | 90 | 2015FI _____ | 15 | 20F-X _____ | 36 |
| 102182 _____ | 24 | 12VTR _____ | 91 | 2015FO _____ | 15 | 20FR _____ | 37 |
| 102N _____ | 24 | 12VTR.OEM _____ | 91 | 2015P _____ | 15 | 20FR-RT _____ | 37 |
| 103RN _____ | 24 | 12VXT _____ | 91 | 2015R _____ | 15 | 20M _____ | 36 |
| 103RN.OEM _____ | 24 | 131802000 _____ | 82 | 2016C _____ | 15 | 20M-AW _____ | 36 |
| 104SPP _____ | 23 | 131804000 _____ | 82 | 2016P _____ | 15 | 20M-RT _____ | 36 |
| 105SPP _____ | 23 | 150BBI _____ | 9, 73 | 2016R _____ | 15 | 20M-X _____ | 36 |
| 106F-H _____ | 36 | 150BBI.OEM _____ | 73 | 2021C _____ | 15 | 20MR _____ | 37 |
| 106FR-DSS-H _____ | 37 | 150BBI-TM _____ | 73 | 2021FO _____ | 15 | 2100 _____ | 54 |
| 106FR-H _____ | 37 | 150BBIW _____ | 73 | 2021P _____ | 15 | 2100-B _____ | 54 |
| 106M-H _____ | 36 | 150BBIW.OEM _____ | 73 | 2021R _____ | 15 | 2101 _____ | 54 |
| 106MR-DSS-H _____ | 37 | 150CC.OEM _____ | 73 | 2030FL _____ | 25 | 2101-B _____ | 54 |
| 106MR-H _____ | 37 | 150CCI _____ | 73 | 203242 _____ | 27 | 2102 _____ | 54 |
| 110R _____ | 24, 25 | 150CCTM.OEM _____ | 73 | 203243 _____ | 27 | 2102-3-B _____ | 54 |
| 125W _____ | 23 | 152AY _____ | 23 | 205C _____ | 15 | 2102-B _____ | 54 |
| 12BKT _____ | 90 | 1520BI.OEM _____ | 24 | 205CBL _____ | 15 | 2110A _____ | 54 |
| 12MP.OEM _____ | 90 | 152400-01 _____ | 73 | 205CL _____ | 15 | 2110A-B _____ | 54 |
| 12VAD _____ | 91 | 152400-03 _____ | 73 | 205CRCN _____ | 15 | 2111A _____ | 54 |
| 12VBPS _____ | 89 | 153AY _____ | 23 | 205CRPN _____ | 15 | 2111A-B _____ | 54 |
| 12VBPS.OEM _____ | 89 | 154800-01 _____ | 73 | 205CRR _____ | 15 | 2112A _____ | 54 |
| 12VBPS2 _____ | 88 | 154800-03 _____ | 73 | 205FI _____ | 15 | 2112A-B _____ | 54 |
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