

# ZVC120SP Series

New Product



## Single output 100W to 120W AC/DC External Adapters

The High Power SP Series from Red Rocket are ideal for portable computing, multimedia, industrial, networking and printing applications.

The new SP series of high power adapters are fully compliant with CEC and Energy Star IV requirements and provide their full output power without the need for fan cooling.

The SP series are also available with non-standard voltage outputs as an option.



### Features :

- > Universal Input Desktop
- > Efficiency to 85% @ full load
- > Convection cooling
- > EN55022-B—Level B
- > Class 1 Product
- > CEC Compliant
- > Energy Star IV Compliant
- > -10 to 70°C Operating

| Model Number | Output | Min Load | Max Load | Power |
|--------------|--------|----------|----------|-------|
| ZVC120SP12D  | +12V   | 0.0A     | 8.30A    | 100W  |
| ZVC120SP15D  | +15V   | 0.0A     | 8.00A    | 120W  |
| ZVC120SP18D  | +18V   | 0.0A     | 6.66A    | 120W  |
| ZVC120SP24D  | +24V   | 0.0A     | 5.0A     | 120W  |
| ZVC120SP36D  | +36V   | 0.0A     | 3.33A    | 120W  |
| ZVC120SP48D  | +48V   | 0.0A     | 2.5A     | 120W  |

| INPUT SPECIFICATIONS |           |               |
|----------------------|-----------|---------------|
| AC Input             | Universal | 90 to 264V    |
| Efficiency           |           | 85% Typical   |
| Power Factor         |           | 0.95 @ 230VAC |
| Input Current        |           | 2.3A Max      |
| Inrush Current       |           | 60A Max       |
| Input Frequency      |           | 47—63Hz       |

| MECHANICAL SPECIFICATIONS  |   |
|--|---|
| Input Connector  | IEC320 C14  |
| Output Connector   | 4 pin power din (FMP02-4P)                            |
| Cable length / UL : 12V/15V<br>Cable length / UL : 18V/24V/36V/48V | 1200mm ± 30mm / UL1571<br>1200mm ± 30mm / UL1185      |
| Cable gauge  | 12V/15V : 14AWG<br>18V/24V : 16AWG<br>36V/48V : 18AWG |
| Size   | 175mm x 60.5mm x 38.3 mm                              |
| Weight   | 650 g   |



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## Single output 100 TO 120 Watt AC/DC External Adapters

| EMC AND SAFETY SPECIFICATIONS |   | ENVIRONMENTAL SPECIFICATIONS |  |
|-------------------------------|---|------------------------------|--|
| CEC Mark                      | Complies model standby power ( @ no load ) < 0.5 W. | Operating Temperature        | -10°C to 70°C<br>De-rate from 40°C @ 100% to 70°C @ 50% Load |
| EMC—Radiated/Conducted        | EN55022,CISPR22, FCC Part 15 Class B                | Storage Temperature          | -20° to + 85° C  |
| Agency Approvals              | UL / TUV / EN60950—1 , CE, CB                       | Cooling                      | Convection   |
| Safety Standards              | UL,CE,CB , EN60950-1                                | Operating Humidity           | 20% to 90% RH  |
| EMC—Environmental             | EN61000-3-2,3<br>EN61000-4-2,3,4,5,6,8,11           | MTBF                         | ≥150,000 Hrs   |

| OUTPUT SPECIFICATIONS               |             |                                |
|-------------------------------------|-------------|--------------------------------|
| Output Power                        |             | 120W                           |
| Minimum Load                        |             | 0.0A                           |
| Hold-Up Time                        |             | 10ms @ 115VAC<br>30ms @ 230vac |
| Line Regulation                     |             | ± 3%                           |
| Load Regulation                     |             | ± 3%                           |
| Transient Response                  |             | <5%                            |
| OCP,OVP, Over Power & Short Circuit |             | YES                            |
| Ripple and Noise                    | 12,15 & 19v | 5% Max                         |
|                                     | 24,36 & 48v | 3% Max                         |
| Output Rise Time                    |             | <10ms                          |

