

PSW-480 Series **Specifications**











Features:

- Single and two phase wide input range 180~550VAC
- High efficiency 93% and low power dissipation
 Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Cooling by free air convectionDIN rail mountable

- UL 508(industrial control equipment) approved
 EN61000-6-2 (EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 year warranty

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

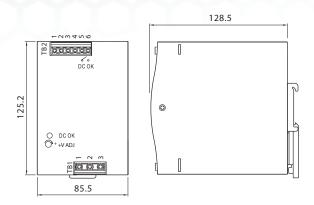
SAFETY & EMC

OTHERS

	Cat. No.	PSW-48024	PSW-48048
	DC VOLTAGE	24V	48V
	RATED CURRENT	20A	10A
	CURRENT RANGE	0 ~ 20A	0 ~ 10A
	RATED POWER	480W	480W
	RIPPLE & NOISE (max)	100mVp-p	150mVp-p
			sing a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacito
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE	±1.0%	±1.0%
	7027702 702278 8102	Tolerance: includes set up tolerance, line regulation and lo	
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE, HOLD UP TIME	•	ns, 150ms, 16ms / 230VAC at full load
	, ,		113, 130113, 101137 230VAO at full load
	VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC	
	EDECUENCY DANCE	Derating may be needed under low input voltage. Please of	check the derating curve for more details
	FREQUENCY RANGE	47 ~ 63Hz	Land
	EFFICIENCY (Typ.)	92%	93%
	AC CURRENT	1.6A / 400VAC 4A / 230VAC	
	INRUSH CURRENT (Typ.)	COLD START 50A	
	LEAKAGE CURRENT	\leq 3.5 mA / 530VAC	
	OVERLOAD	105 ~ 130% rated output power	
		·	wn after 3 sec.; auto recovery after 1 minute if the fault condition is remove
	OVERVOLTAGE	29 ~ 33V	56 ~ 65V
		Protection type: Shut down overvoltage; auto recovery after	
			ne power supply will shut down and then may have auto-recovery after
		several seconds.	
	OVERTEMPERATURE	$95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW) detect on heat sink of povers.	wer switch
		Protection type: Shut down overvoltage, recovers automat	ically after temperature goes down
	DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A i	resistive load
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating	curve)
	WOTHING TEIM.		n, 5mm on the left and right side are recommended when loaded
		permanently with full power. In case the adjacent device is	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C; 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60 min. eac	th long X.Y. 7 axes
	MOUNTING	Compliance to IEC60068-2-6	iong 7,, 1, 2 and
		·	
	SAFETY STANDARDS	UL508 approved	
		IEC 60950-1 compliant	
	MITHOTAND VOLTAGE	Design refer to GL	0.0 EI/J/A0
	WITHSTAND VOLTAGE		G:0.5KVAC O/P-DC OK:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500V	DC (25 C; 70% RH)
	EMI CONDUCTION & RADIATION	EN55022 (CISPR22), EN61204-3 Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
п	EMS IMMUNITY		ENV50204; EN 55024; EN61000-6-2; (EN50082-2);
		EN61204-3; heavy industry level; criteria A	11 /
١			nstalled into a final equipment. The final equipment must be
	I	re-confirmed that is still meets EMC directives.	
	MTBF	112.8K hrs min. MIL-HDBK-217K (25°C)	
١	DIMENSION	85.5x125.2x128.5mm (WxHxD)	
	PACKING	1.7Kg; 8pcs / 14.6Kg / 0.9CUFT	
		All parameters NOT specially mentioned are measured at	400VAC input, rated load and 25°C of ambient temperature.
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Altech Corp.®

Mechanical Specification

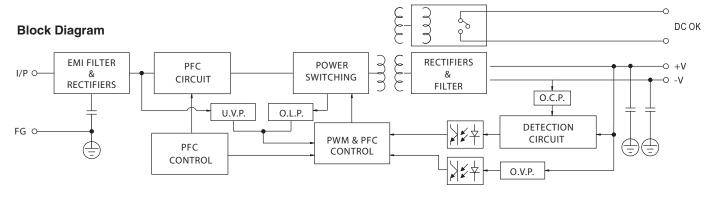


Terminal Pin No. Assignment (TB1)

Terminal Pin No. Assignment (TB2)	Terminal	Pin No.	Assignment	(TB2)
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Pin No.	Assignment
1	FG 🖶
2	AC/L2
3	AC/L1

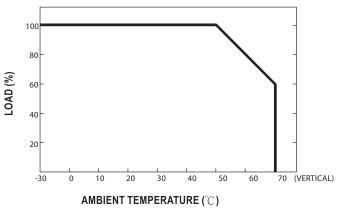
Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	Relay Contact



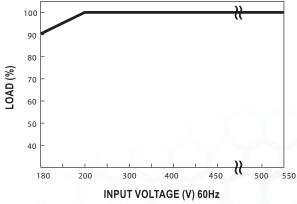
DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

Derating Curve



Output Derating VS Input Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.