

PSW-480 Series

Specifications

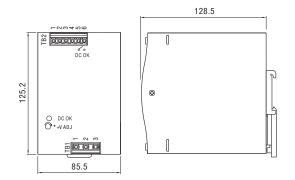


Features:

- 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 convection
- DIN 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	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
			a 12 twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE	±1.0%	±1.0%
		Tolerance: includes set up tolerance, line regulation and loa	ad regulation.
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
INPUT	SETUP, RISE, HOLD UP TIME	-	ns, 150ms, 16ms / 230VAC at full load
	VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC	
		Derating may be needed under low input voltage. Please c	heck the derating curve for more details
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	92%	93%
	AC CURRENT	1.6A / 400VAC 4A / 230VAC	·
	INRUSH CURRENT (Typ.)	COLD START 50A	
PROTECTION	LEAKAGE CURRENT	\leq 3.5 mA / 530VAC	
THOTECHON		S 3.3 IIIA / 350 AG	
	OVERLOAD	105 ~ 130% rated output power	
		Protection type: Constant current limiting, unit will shut down	after 3 sec.; auto recovery after 1 minute if the fault condition is removed
	OVERVOLTAGE	29 ~ 33V	56 ~ 65V
		Protection type: Shut down overvoltage; auto recovery afte	r 1 minute if the fault condition is removed
			e power supply will shut down and then may have auto-recovery after
		several seconds.	
	OVERTEMPERATURE	$95^{\circ}C \pm 5^{\circ}C$ (TSW) detect on heat sink of pov	ver switch
		Protection type: Shut down overvoltage, recovers automatic	
ENVIRONMENT	DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A r	
		, ,	
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating of	curve)
		Installation clearances: 40mm on top, 20mm on the bottom	n, 5mm on the left and right side are recommended when loaded
		permanently with full power. In case the adjacent device is	a heat source, 15mm clearance is recommended.
	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	h long X.Y. 7 axes
SAFETY & EMC	MOUNTING	Compliance to IEC60068-2-6	
		•	
	SAFETY STANDARDS	UL508 approved	
		IEC 60950-1 compliant	
		Design refer to GL	
	WITHSTAND VOLTAGE	I/P-0/P: 3KVAC I/P-FG:1.5KVAC 0/P-FG	:0.5KVAC 0/P-DC 0K:0.5KVAC
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG: 100M Ohms / 500VI	-
	EMI CONDUCTION & RADIATION	EN55022 (CISPR22), EN61204-3 Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
		•	
	EMS IMMUNITY		NV50204; EN 55024; EN61000-6-2; (EN50082-2);
		EN61204-3; heavy industry level; criteria A	
OTUEDO			stalled into a final equipment. The final equipment must be
OTHERS	<u> </u>	re-confirmed that it still meets EMC directives.	
	MTBF	112.8K hrs min. MIL-HDBK-217K (25°C)	
		85.5x125.2x128.5mm (WxHxD)	
	DIMENSION	. ,	
	PACKING	1.7Kg; 8pcs / 14.6Kg / 0.9CUFT	1001/40 input rated load and 05% of ambient town and me
		. ,	100VAC input, rated load and 25°C of ambient temperature.

Mechanical Specification

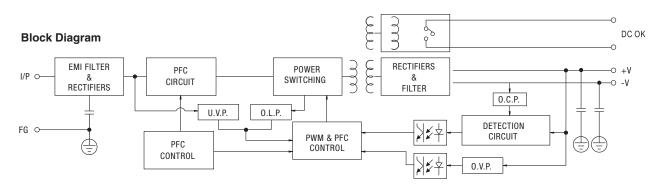


Terminal Pin No. Assignment (TB1) Terminal Pin No. Assignment (TB2) Pin No. Assignment FG 🕀 1 AC/L2 2

AC/L1

3

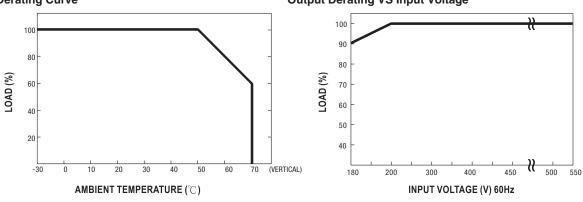
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Pin No.	Assignment			
1,2	DC OUTPUT +V			
3,4	DC OUTPUT -V			
5,6	Relay Contact			



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.