

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

п	П	-	100
н	м	15/1	

PROTECTION

ENVIRONMENT

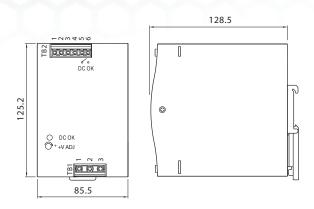
SAFETY & EMC

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
	()	• •	ing a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE	±1.0%	±1.0%
		Tolerance: includes set up tolerance, line regulation and loa	d regulation.
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE, HOLD UP TIME		s, 150ms, 16ms / 230VAC at full load
	VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC	5, 100116, 10116 / 200116 at lan 10aa
	VOLIAGE NAIVGE	Derating may be needed under low input voltage. Please ch	each the denating curve for more details
	FREQUENCY RANGE	47 ~ 63Hz	leck the defaulty curve for filore details
		92%	93%
	EFFICIENCY (Typ.) AC CURRENT	1.6A / 400VAC	9370
		COLD START 50A	
	INRUSH CURRENT (Typ.) LEAKAGE CURRENT	≤ 3.5 mA / 530VAC	
	OVERLOAD	105 ~ 130% rated output power	
			n 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 after	
		under over-voltage condition, if input voltage ≤ 200VAC, the several seconds.	e power supply will shut down and then may have auto-recovery after
	OVERTEMPERATURE	$95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW) detect on heat sink of pow	er switch
	OVERTIENT ENATORIE	Protection type: Shut down overvoltage, recovers automatic	
	DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A re	
	, ,		
	WORKING TEMP.	$-30 \sim +70^{\circ}$ C (Refer to output load derating c	,
			, 5mm on the left and right side are recommended when loaded
	WORKING HUMIDITY	permanently with full power. In case the adjacent device is $20 \sim 95\%$ RH non-condensing	a neat source, 15mm clearance is recommended.
	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. each	Inna X V 7 aves
	MOUNTING	Compliance to IEC60068-2-6	Tiong A, I, Z axos
		<u> </u>	
	SAFETY STANDARDS	UL508 approved	
		IEC 60950-1 compliant	
	WITHETAND VOLTAGE	Design refer to GL	.0 EKVAC
	WITHSTAND VOLTAGE		:0.5KVAC
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG: 100M 0hms / 500VD	IC (25 C; 70% KH)
	EMI CONDUCTION & RADIATION	EN55022 (CISPR22), EN61204-3 Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	NIVEOCOA: EN EECOA: ENCLOSO C. O. (ENECOSO O).
	EMS IMMUNITY		NV50204; EN 55024; EN61000-6-2; (EN50082-2);
-		EN61204-3; heavy industry level; criteria A a	· ·
-		The power supply is considered a component which will ins re-confirmed that is still meets EMC directives.	stalled into a final equipment. The final equipment must be
-	MTDE		
	MTBF	112.8K hrs min. MIL-HDBK-217K (25°C)	
	DIMENSION	85.5x125.2x128.5mm (WxHxD)	
	PACKING	1.7Kg; 8pcs / 14.6Kg / 0.9CUFT	00040
		All parameters NOT specially mentioned are measured at 4	UUVAC Input, rated load and 25°C of ambient temperature.

Altech Corp.®

Mechanical Specification

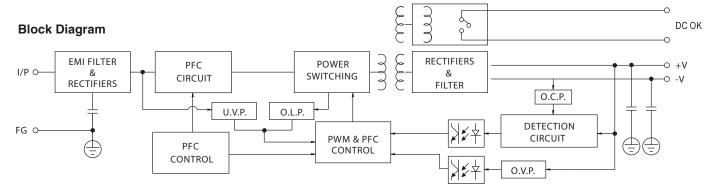


Terminal Pin No. Assignment (TB1)

)	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



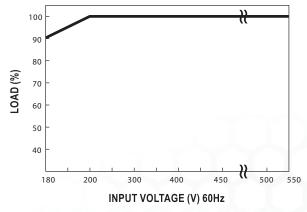
DC OK Relay Contact

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

Derating Curve

100 80 60 40 20 -30 0 10 20 30 40 50 60 70 (VERTICAL) AMBIENT TEMPERATURE (°C)

Output Derating VS Input Voltage



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