

## **PSW-480 Series Specifications**







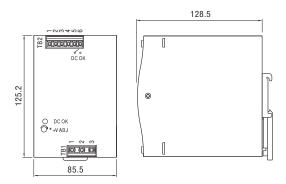


#### Features:

- 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
	Till I LE & Noise (max)	' '	g a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capaciton
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE	±1.0%	±1.0%
	VOLITAL TOLLIDAVOL	Tolerance: includes set up tolerance, line regulation and lo	
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±0.3 % ±1.0%
INDUT			
INPUT	SETUP, RISE, HOLD UP TIME	800ms, 150ms, 18ms / 400VAC 2000r	ms, 150ms, 16ms / 230VAC at full load
	VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC	
		Derating may be needed under low input voltage. Please	check the derating curve for more details
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	92%	93%
	AC CURRENT	1.6A / 400VAC	
	INRUSH CURRENT (Typ.)	COLD START 50A	
PROTECTION	LEAKAGE CURRENT	≤ 3.5 mA / 530VAC	
THOTEOTION			
	OVERLOAD	105 ~ 130% rated output power	
			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	er 1 minute if the fault condition is removed
		Under over-voltage condition, If input voltage $\leq$ 200VAC, the state of the condition of t	he power supply will shut down and then may have auto-recovery afte
		several seconds.	
	OVERTEMPERATURE	$95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW) detect on heat sink of po	wer switch
		Protection type: Shut down overvoltage, recovers automat	ically after temperature goes down
ENVIRONMENT	DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A	resistive load
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating	curve)
			m, 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	ch long X.Y. 7 axes
<b>SAFETY &amp; EMC</b>	MOUNTING	Compliance to IEC60068-2-6	7. 10.1 <b>g</b> 7,1,1 = 4.100
57.11 21 11 62 21110		·	
	SAFETY STANDARDS	UL508 approved	
		IEC 60950-1 compliant	
		Design refer to GL	
	WITHSTAND VOLTAGE	I/P-0/P: 3KVAC	G:0.5KVAC 0/P-DC 0K:0.5KVAC
		I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500V	DC (25°C: 70% RH)
	ISOLATION RESISTANCE	1/1 0/1, 1/1 1 d, 0/1 1 d. 1001vi 0111113 / 300 v	20 (20 0, 70 % 1111)
	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	EN55022 (CISPR22), EN61204-3 Class B	20 (20 0, 70 % 1111)
			20 (20 0, 10 % 111)
	EMI CONDUCTION & RADIATION HARMONIC CURRENT	EN55022 (CISPR22), EN61204-3 Class B Compliance to EN61000-3-2,-3	, ,
	<b>EMI CONDUCTION &amp; RADIATION</b>	EN55022 (CISPR22), EN61204-3 Class B Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; I	ENV50204; EN 55024; EN61000-6-2; (EN50082-2);
	EMI CONDUCTION & RADIATION HARMONIC CURRENT	EN55022 (CISPR22), EN61204-3 Class B Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; I EN61204-3; heavy industry level; criteria A	ENV50204; EN 55024; EN61000-6-2; (EN50082-2); approved;
OTHERS	EMI CONDUCTION & RADIATION HARMONIC CURRENT	EN55022 (CISPR22), EN61204-3 Class B Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; I EN61204-3; heavy industry level; criteria A	ENV50204; EN 55024; EN61000-6-2; (EN50082-2);
<u>OTHERS</u>	EMI CONDUCTION & RADIATION HARMONIC CURRENT	EN55022 (CISPR22), EN61204-3 Class B Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; I EN61204-3; heavy industry level; criteria A The power supply is considered a component which will in	ENV50204; EN 55024; EN61000-6-2; (EN50082-2); approved;
<u>OTHERS</u>	EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	EN55022 (CISPR22), EN61204-3 Class B Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; IEN61204-3; heavy industry level; criteria A The power supply is considered a component which will in re-confirmed that it still meets EMC directives.	ENV50204; EN 55024; EN61000-6-2; (EN50082-2); approved;
<u>OTHERS</u>	EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY  MTBF	EN55022 (CISPR22), EN61204-3 Class B Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; I EN61204-3; heavy industry level; criteria A The power supply is considered a component which will ir re-confirmed that it still meets EMC directives.  112.8K hrs min. MIL-HDBK-217K (25°C)	ENV50204; EN 55024; EN61000-6-2; (EN50082-2); approved;

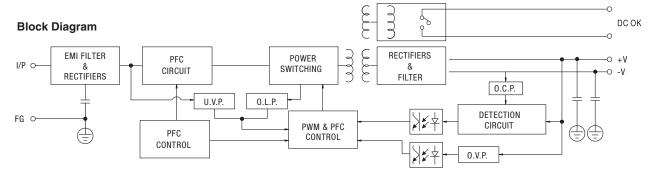
#### **Mechanical Specification**



Terminal Pin No. Assignment (TB1) Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1	FG ⊕
2	AC/L2
3	AC/L1

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



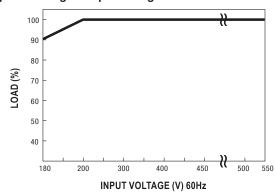
#### **DC OK Relay Contact**

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

### **Derating Curve**

# 100 80 60 -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.