

# **PSW-240 Series Specifications**







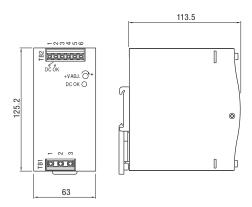


#### Features:

- Single and two phase wide input range 180~550VAC
- High efficiency 91% 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

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OUTPUT	Cat. No.	PSW-24024	PSW-24048	
	DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max)	24V 10A 0 ~ 10A 240W 150mVp-p	48V 5A 0 ~ 5A 240W 150mVp-p	
	VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE	' '	a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor. $48\sim55V$ $\pm1.0\%$	
INPUT	LINE REGULATION LOAD REGULATION SETUP, RISE, HOLD UP TIME	±0.5% ±1.0% 800ms, 150ms, 18ms / 400VAC 1500m	±0.5% ±1.0% s, 150ms, 18ms / 230VAC at full load	
PROTECTION	VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT (Typ.) LEAKAGE CURRENT	$180 \sim 550 \text{VAC} \qquad 254 \sim 780 \text{VDC}$ Derating may be needed under low input voltage. Please ch $47 \sim 63 \text{Hz}$ $91\%$ $1A \ / \ 400 \text{VAC} \qquad 2A \ / \ 230 \text{VAC}$ $\text{COLD START 50A}$ $\leq 3.5 \text{ mA} \ / \ 530 \text{VAC}$	eck the derating curve for more details	
	OVERLOAD OVERVOLTAGE	29 ~ 33V Protection type: Shut down overvoltage, re-power on to reco	fter 3 sec.; auto recovery after 1 minute if the fault condition is removed $56\sim65V$ overy power supply will shut down and then may have auto-recovery	
ENVIRONMENT	OVERTEMPERATURE  DC OK RELAY CONTACT RATINGS (max.)	90°C ± 5°C (TSW) detect on heat sink of power switch Protection type: Shut down overvoltage, recovers automatically after temperature goes down 60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A resistive load		
SAFETY & EMC	WORKING TEMP.  WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING	-30 ~ +70°C (Refer to output load derating c	Urve) 5mm on the left and right side are recommended when loaded a heat source, 15mm clearance is recommended.	
OTHERS	SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	I/P-O/P, I/P-FG, O/P-FG: $\geq$ 100M Ohms / 500V EN55022 (CISPR22), Class B Compliance to EN61000-3-2,-3	NV50204; EN 55024; EN61000-6-2; (EN50082-2); pproved; talled into a final equipment. The final	
	MTBF DIMENSION PACKING	141.1K hrs min. MIL-HDBK-217K (25°C) 63x125.2x113.5mm (WxHxD) 1.06Kg; 12pcs / 13.7Kg / 1.06CUFT All parameters NOT specially mentioned are measured at 40	00VAC input, rated load and 25°C of ambient temperature.	

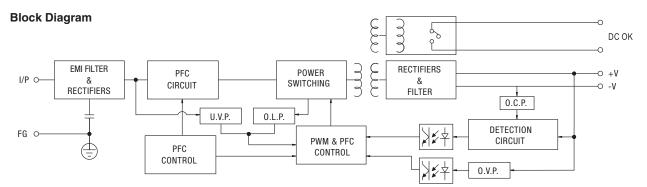
#### **Mechanical Specification**



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

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

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



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

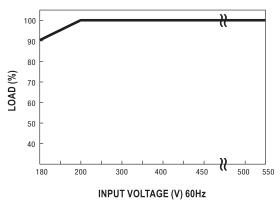
Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

#### **Derating Curve**

## 100 80 LOAD (%) 40 20 60 70 (VERTICAL) -30

AMBIENT TEMPERATURE (°C)

### **Output Derating VS Input Voltage**



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