

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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INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

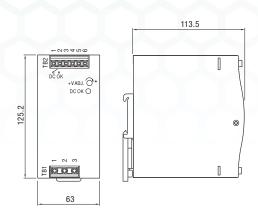
OTHERS

Cat. No.	PSW-24024	PSW-24048		
DC VOLTAGE	24V	48V		
RATED CURRENT	10A	5A		
CURRENT RANGE	0 ~ 10A	0 ~ 5A		
RATED POWER	240W	240W		
RIPPLE & NOISE (max)	150mVp-p	150mVp-p		
VOLTAGE ADJ. RANGE	24 ~ 28V	a 12 twisted pair-wire terminated with a 0.1 μF & 47 μF parallel capacit $48\sim55V$		
VOLTAGE TOLERANCE	±1.0%	±1.0%		
LINE DECLI ATION	Tolerance: includes set up tolerance, line regulation and loa			
LINE REGULATION	±0.5%	±0.5%		
LOAD REGULATION	±1.0%	±1.0%		
SETUP, RISE, HOLD UP TIME	800ms, 150ms, 18ms / 400VAC 1500m	s, 150ms, 18ms / 230VAC at full load		
VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC			
	Derating may be needed under low input voltage. Please ch	eck the derating curve for more details		
FREQUENCY RANGE	47 ~ 63Hz			
EFFICIENCY (Typ.)	91%			
AC CURRENT	1A / 400VAC 2A / 230VAC			
INRUSH CURRENT (Typ.)	COLD START 50A			
LEAKAGE CURRENT	\leq 3.5 mA / 530VAC			
OVERLOAD	105 ~ 130% rated output power			
	Protection type: Constant current limiting, unit will shut down a	fter 3 sec.; auto recovery after 1 minute if the fault condition is remove		
OVERVOLTAGE	29 ~ 33V 56 ~ 65V			
,	Protection type: Shut down overvoltage, re-power on to reco			
		power supply will shut down and then may have auto-recovery		
OVERTENANER ATURE	after several seconds	9.1		
OVERTEMPERATURE	$90^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW) detect on heat sink of pow			
DO OK DELAY CONTACT DATINGS (*** ***)	• • • • • • • • • • • • • • • • • • • •	vers automatically after temperature goes down		
DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A re	sistive load		
WORKING TEMP. $-30 \sim +70^{\circ}\text{C}$ (Refer to output load derating curve)				
	Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded			
permanently with full power. In case the		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. each long X,Y, Z axes			
MOUNTING	Compliance to IEC60068-2-6			
SAFETY STANDARDS	UL508 approved			
	IEC 60950-1 compliant			
	Design refer to GL			
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC	:0.5KVAC		
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: ≥ 100M Ohms / 500	/DC (25°C; 70% RH)		
EMI CONDUCTION & RADIATION	EN55022 (CISPR22), 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 approved;			
	The power supply is considered a component which will installed into a final equipment. The final			
	equipment must be re-confirmed that it still meets EMC dire			
MTBF	141.1K hrs min. MIL-HDBK-217K (25°C)	<u> </u>		
DIMENSION 63x125.2x113.5mm (WxHxD) PACKING 1.06Kg; 12pcs / 13.7Kg / 1.06CUFT				
	3,			

All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.

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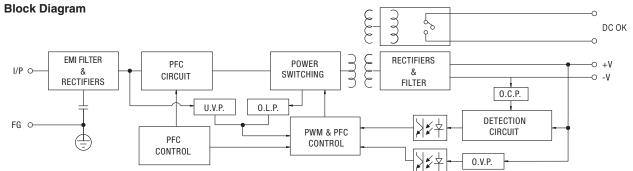
Mechanical Specification



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

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

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

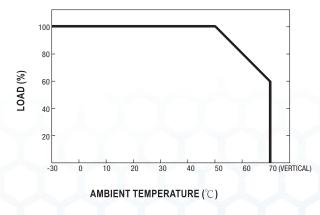


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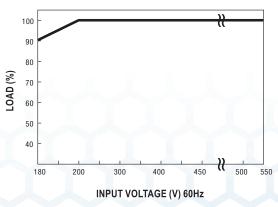
DC OK Relay Contact

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.

Mouser Electronics

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