

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

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

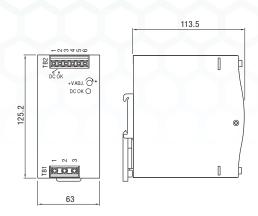
OTHERS

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	
,	Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capaci		
VOLTAGE ADJ. RANGE	24 ~ 28V		
VOLTAGE TOLERANCE	±1.0%	±1.0%	
	Tolerance: includes set up tolerance, line regulation and load regulation.		
LINE REGULATION	±0.5%	±0.5%	
LOAD REGULATION	±1.0%	±1.0%	
SETUP, RISE, HOLD UP TIME		1500ms, 150ms, 18ms / 230VAC at full load	
		1300ms, 130ms, 10ms / 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 de		rease check 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	≤ 3.5 mA / 530VAC		
OVERLOAD	105 ~ 130% rated output power		
Protection type: Constant current limiting, unit will shut down after 3 sec.; auto		ut down after 3 sec.; auto recovery after 1 minute if the fault condition is remo	
OVERVOLTAGE	29 ~ 33V 56 ~ 65V		
	Protection type: Shut down overvoltage, re-power on to recovery		
		DVAC, the power supply will shut down and then may have auto-recovery	
OVERTENARED ATURE	after several seconds		
OVERTEMPERATURE	$90^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW) detect on heat sink		
Protection type: Shut down overvoltage, red			
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 der	ating 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 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 ±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z axes		
TEMP. COEFFICIENT			
VIBRATION			
MOUNTING Compliance to IEC60068-2-6			
SAFETY STANDARDS	UL508 approved		
0, 11 21 1 31, 11 120	IEC 60950-1 compliant		
	Design refer to GL		
WITHSTAND VOLTAGE	· · · · · · · · · · · · · · · · · · ·		
ISOLATION RESISTANCE	//P-0/P: SNVAC //P-FG: 1.5NVAC 0/P-FG: 0.5NVAC 0/P-DC 0N: 0.5NVAC 1/P-0/P, I/P-FG, 0/P-FG: ≥ 100M 0hms / 500VDC (25°C; 70% RH)		
EMI CONDUCTION & RADIATION	, , ,		
HARMONIC CURRENT	EN55022 (CISPR22), Class B		
	Compliance to EN61000-3-2,-3	11. ENVENDO 4. EN EEO 24. EN 61000 6 0. (EN 50000 0)	
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN 55024; EN61000-6-2; (EN50082-2); EN61204 3: hopey industry level; criteria A approved:		
	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 directives.		
MTBF	· · ·		
DIMENSION	141.1K hrs min. MIL-HDBK-217K (25°C)		
PACKING	63x125.2x113.5mm (WxHxD)		
FAUNINU	1.06Kg; 12pcs / 13.7Kg / 1.06CUFT		

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

Altech Corp.

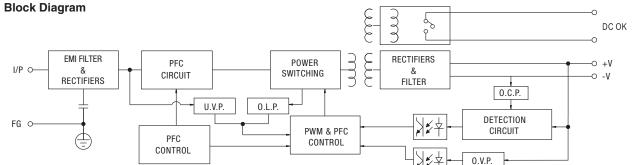
Mechanical Specification



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

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

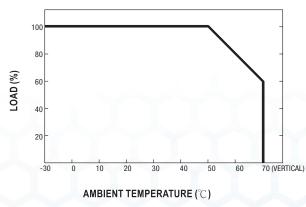
Pin No.	Assignment	
1,2	Relay Contact	
3,4	DC OUTPUT +V	
5,6	DC OUTPUT -V	



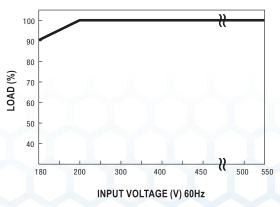
DC OK Relay Contact

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

Derating Curve



Output Derating VS Input Voltage



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