

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 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

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

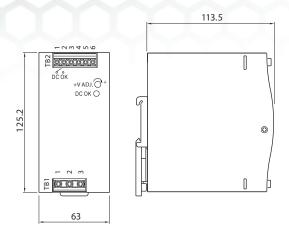
OTHERS

	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		
	Till T EE & NoteE (max)	Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capa			
	VOLTAGE ADJ. RANGE	24 ~ 28V	ing a 12 twisted pair-wire terminated with a 0.1pr & 47pr parallel capacitor		
	VOLTAGE TOLERANCE	±1.0%	±1.0%		
	VOLIAGE TOLLIANGE	±1.070 Tolerance: includes set up tolerance, line regulation and loa			
	LINE REGULATION	±0.5%	±0.5%		
		±1.0%	±1.0%		
	LOAD REGULATION				
	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	neck 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				
	UVENLUAD	105 ~ 130% rated output power			
	OVEDVOLTACE		vn after 3 sec.; auto recovery after 1 minute if the fault condition is removed		
	OVERVOLTAGE	29 ~ 33V	56 ~ 65V		
	Protection type: Shut down overvoltage, re-power on to recovery Under over-voltage condition, If input voltage \leq 200VAC, the power supply will shut down and then may have auto-recovery				
		after several seconds	.,		
	OVERTEMPERATURE	$90^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW) detect on heat sink of pow	ver switch		
			overs automatically after temperature goes down		
	DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A re			
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating c			
	WURKING IEWF.		, 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	$\pm 0.03\% / ^{\circ}C (0 \sim 50^{\circ}C)$			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z axes			
	MOUNTING	Compliance to IEC60068-2-6	riong A, i, Z axos		
		<u>'</u>			
	SAFETY STANDARDS	UL508 approved			
		IEC 60950-1 compliant			
		Design refer to GL			
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC	G:0.5KVAC O/P-DC OK: 0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: ≥ 100M Ohms / 500VDC (25°C; 70% RH)			
	EMI CONDUCTION & RADIATION	EN55022 (CISPR22), Class B			
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3			
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN 55024; EN61000-6-2; (EN50082-2);			
ш		EN61204-3; heavy industry level; criteria A approved;			
۱		The power supply is considered a component which will installed into a final equipment. The final			
	I	equipment must be re-confirmed that is still meets EMC directions \ensuremath{EMC}	rectives.		
	MTBF	141.1K hrs min. MIL-HDBK-217K (25°C)			
	DIMENSION	63x125.2x113.5mm (WxHxD)			
	PACKING 1.06Kg; 12pcs / 13.7Kg / 1.06CUFT				
		J,pg,			

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

Altech Corp.®

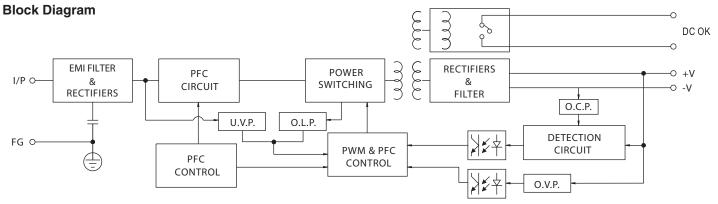
Mechanical Specification



rminai Pin No. Assignment (181)			Terminal Pin No. Assignment (TB2			
in No.	Assignment		Pin No.	Assignr	nent	
	== ①	1		D - 0		1

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

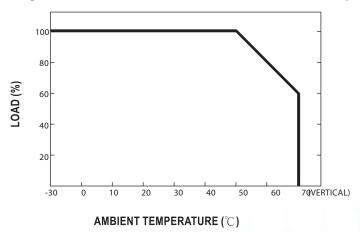
	I		
FG ⊕		1,2	Relay Contact
AC/L2		3,4	DC OUTPUT +V
AC/L1		5,6	DC OUTPUT -V



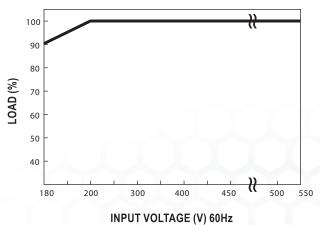
DC OK Relay Contact

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.