

PSP-240 Series Specifications









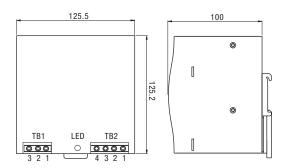


Features:

- Universal AC input / full range
- Built in active PFC function
- Protections: Short Circuit / Overload / Overvoltage / Over temperature
- Cooling by free air convection
- DIN rail mountable
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- 3 year warranty

OUTPUT	Cat. No.	PSP-24024	PSP-24048
	DC VOLTAGE	24V	48V
	RATED CURRENT	10A	5A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A
	RATED POWER	240W	240W
	· ·		
	RIPPLE & NOISE (max)	80mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair $24 \sim 28V$	-wire terminated with a 0.1µF & 47µF parallel capacitor.
	VOLTAGE ADD. TRANCE	±1.0%	±1.0%
	VOLIAGE TOLERANGE	I control of the cont	±1.070
	LINE BEOLU ATION	Tolerance: includes set up tolerance, line regulation and load regulation.	L 0 =0/
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	800ms, 40ms / 230VAC 800ms, 40ms / 115VAC at f	ull load
INPUT	HOLD UP TIME (Typ.)	24ms / 230VAC 24ms / 115VAC at full load	
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC	
		Derating may be needed under low input voltages, please check the deratin	g curve for more detail
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	0.96 / 230VAC	
	EFFICIENCY (Typ.)	84%	85%
	,	·	0370
	AC CURRENT (max.)	2.8A / 115VAC; 1.4A / 230VAC	
	INRUSH CURRENT (Typ.)	COLD START 27A / 115VAC 45A / 230VAC	
PROTECTION	LEAKAGE CURRENT	≤ 3.5mA / 240VAC	
	OVERLOAD	105 ~ 150% rated output power	
	OVEDVOLTACE	Protection type: Constant current limiting, recovers automatically after fault	The second secon
	OVERVOLTAGE	30 ~ 36V	54 ~ 60V
		Protection type: Shut down overvoltage, re-power on to recover	
	OVERTEMPERATURE	$100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW: detect on heat sink of power transistor	•
ENVIRONMENT		Protection type: Shut down overvoltage, recovers automatically after temper	rature goes down
	WORKING TEMP.	-10 \sim +70°C (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +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
CAFETY O FMO	MOUNTING	Compliance to IEC60068-2-6	unoo
SAFETY & EMC	WOONTING	Compilance to iECoococ-2-0	
	SAFETY STANDARDS	UL508	
		UL60950-1	
		EN60950-1 compliant	
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC	
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, O/P-FG: 100M 0hms / 500VDC	
	EMI CONDUCTION & RADIATION		
		Compliance to EN55011; 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	N55U24; EN61UUU-6-2; (EN5UU82-2);
		heavy industry level; criteria A	
OTHERO		The power supply is considered a component which will installed into a fina	Il equipment. The final equipment must be re-confirmed
OTHERS		that it still meets EMC directives.	
	MTBF	289.9K hrs min. MIL-HDBK-217K (25°C)	
	DIMENSION	125.5x125.2x100mm (WxHxD)	
	PACKING	1.2Kg; 12pcs / 15.5Kg / 1.29CUFT	
	1	All parameters NOT specially mentioned are measured at 230V AC input, rai	ted load and 25°C of ambient temperature
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Mechanical Specification



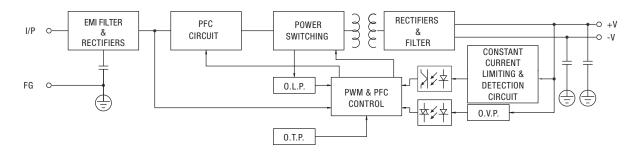
Terminal Pin Number Assignment (TB1)

Pin No.	Assignment	
1	FG ⊕	
2	AC/N	
3	AC/L	

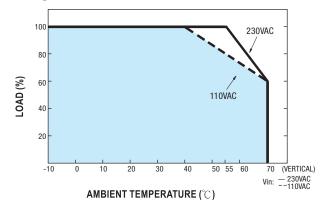
Terminal Pin Number Assignment (TB2)

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

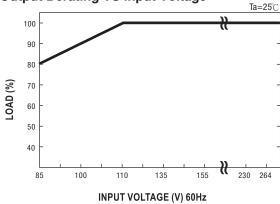
Block Diagram



Derating Curve



Output Derating VS Input Voltage



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