

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

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

PACKING

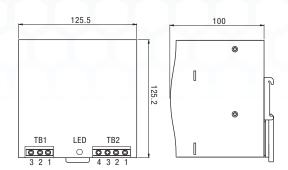
Cat. No.	PSP-24024	PSP-24048
DC VOLTAGE	24V	48V
RATED CURRENT	10A	5A
CURRENT RANGE	0 ~ 10A	0 ~ 5A
RATED POWER	240W	240W
RIPPLE & NOISE (max)	80mVp-p	150mVp-p
TIII I LL & NOISL (IIIAX)	Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted	
VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 53V
VOLTAGE TOLERANCE	±1.0%	±1.0%
	Tolerance: includes set up tolerance, line regulation and load regulation.	1
LINE REGULATION	±0.5%	±0.5%
LOAD REGULATION	±1.0%	±1.0%
SETUP, RISE TIME	800ms, 40ms / 230VAC 800ms, 40ms / 115VAC a	
HOLD UP TIME (Typ.)	24ms / 230VAC 24ms / 115VAC at full lo	
HOLD OF THINE (Typ.)	Z4IIIS / Z3UVAC Z4IIIS / T13VAC at Iulii Iu	au
VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC	
	Derating may be needed under low input voltages, please check the der	ating curve for more detail
FREQUENCY RANGE	47 ~ 63Hz	
POWER FACTOR (Typ.)	0.96 / 230VAC	
EFFICIENCY (Typ.)	84%	85%
AC CURRENT (max.)	2.8A / 115VAC; 1.4A / 230VAC	
INRUSH CURRENT (Typ.)	COLD START 27A / 115VAC 45A / 230VAC	
LEAKAGE CURRENT	\leq 3.5mA / 240VAC	
OVERLOAD	105 ~ 150% rated output power	
012.1207.15	Protection type: Constant current limiting, recovers automatically after fa	ault condition is removed
OVERVOLTAGE	30 ~ 36V	54 ~ 60V
OVERVOLIAGE	Protection type: Shut down overvoltage, re-power on to recover	34 1 000
OVERTEMPERATURE	$100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW: detect on heat sink of power transi	inter)
OVERTEWIFERATORE	Protection type: Shut down overvoltage, recovers automatically after ten	,
		porataro goto dovin
WORKING TEMP.	-10 ~ +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
MOUNTING	Compliance to IEC60068-2-6	
SAFETY STANDARDS	UL508	
5/11 E1 1 6 1/11 (E)	UL60950-1	
	EN60950-1 compliant	
WITHSTAND VOLTAGE	I/P-0/P: 3KVAC	
		,
ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG: 100M 0hms / 500VDC	
EMI CONDUCTION & RADIATION	Compliance to EN55011; EN55022 (CISPR22) Class B	
HARMONIC CURRENT	Compliance to EN61000-3-2,-3	ENERGOA ENGAGOS O O (ENERGOS O)
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204;	EN55U24; EN61UUU-6-2; (EN50082-2);
	heavy industry level; criteria A	
	The power supply is considered a component which will installed into a that it still meets EMC directives.	тіпаі equipment. The тіпаі equipment must be re-confirn
MTBF	289.9K hrs min. MIL-HDBK-217K (25°C)	
DIMENSION	125.5x125.2x100mm (WxHxD)	
DACKING	120.0X120.2X100HHH (WXIIXU)	

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.

1.2Kg; 12pcs / 15.5Kg / 1.29CUFT



Mechanical Specification

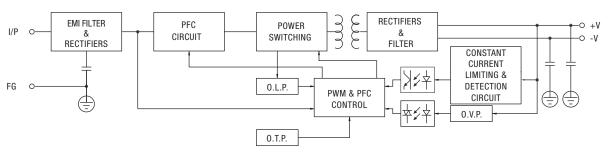


Terminal Pin Number Assignment (TB1) Terminal Pin Number Assignment (TB2)

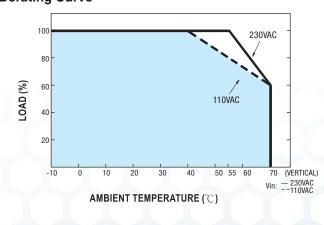
Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

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

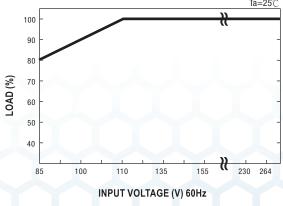
Block Diagram



Derating Curve



Output Derating VS Input Voltage



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

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Altech:

PS-C24024 PS-C24048