



# 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

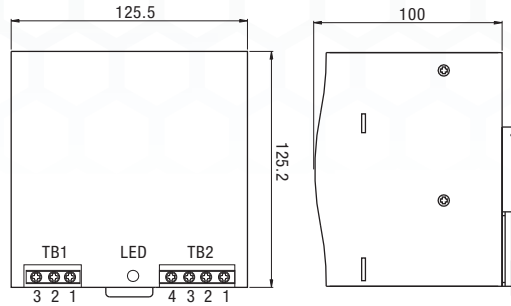
## OTHERS

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	24 ~ 28V	48 ~ 53V
VOLTAGE TOLERANCE	±1.0%	±1.0%
LINE REGULATION	±0.5%	±0.5%
LOAD REGULATION	±1.0%	±1.0%
SETUP, RISE TIME	800ms, 40ms / 230VAC	800ms, 40ms / 115VAC at full load
HOLD UP TIME (Typ.)	24ms / 230VAC	24ms / 115VAC at full load
VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC
FREQUENCY RANGE	47 ~ 63Hz	
POWER FACTOR (Typ.)	0.96 / 230VAC	0.99 / 115VAC at full load
EFFICIENCY (Typ.)	84%	85%
AC CURRENT (max.)	2.8A / 115VAC; 1.4A / 230VAC	
INRUSH CURRENT (Typ.)	COLD START 27A / 115VAC	45A / 230VAC
LEAKAGE CURRENT	≤ 3.5mA / 240VAC	
OVERLOAD	105 ~ 150% rated output power	
OVERVOLTAGE	30 ~ 36V	54 ~ 60V
OVERTEMPERATURE	100°C ± 5°C (TSW: detect on heat sink of power transistor)	
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 UL60950-1 EN60950-1 compliant	
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 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; EN55024; EN61000-6-2; (EN50082-2); heavy industry level; criteria A	
MTBF	289.9K hrs min. MIL-HDBK-217K (25°C)	
DIMENSION	125.5x125.2x100mm (WxHxD)	
PACKING	1.2Kg; 12pcs / 15.5Kg / 1.29CUFT	

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

For the latest on Altech Power Supply specifications please visit [www.altechcorp.com/power](http://www.altechcorp.com/power).

**Mechanical Specification**



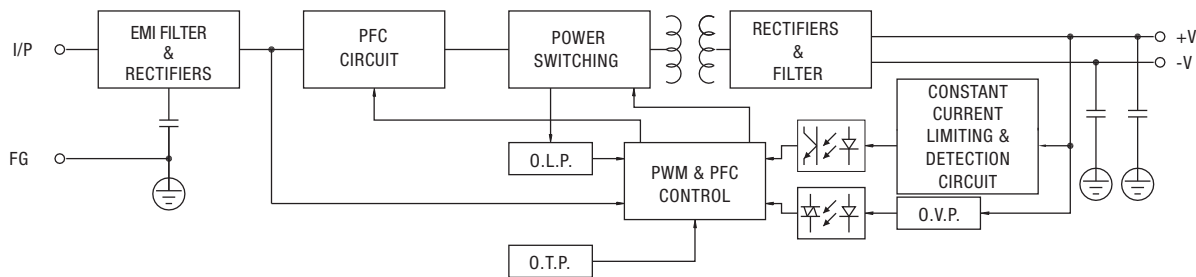
Terminal Pin Number Assignment (TB1)

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

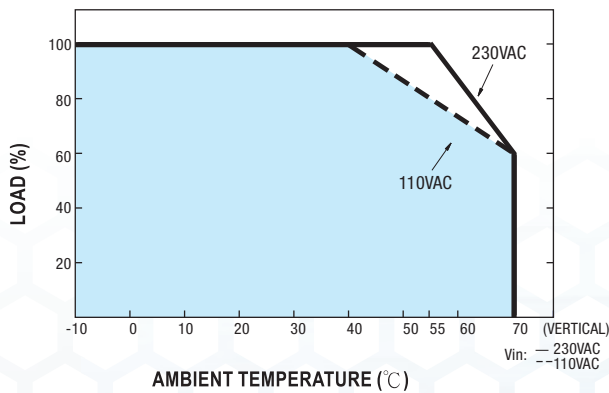
Terminal Pin Number Assignment (TB2)

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

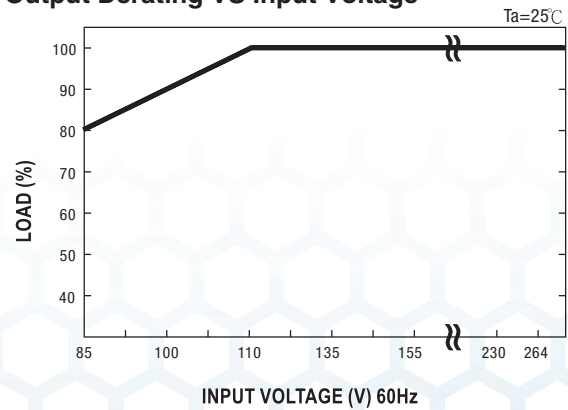
**Block Diagram**



**Derating Curve**



**Output Derating VS Input Voltage**



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

PSC Class 2 Series  
Compact Housing

PSA Flex Series  
1 Phase

PSB Flex Series  
2 & 3 Phase

PS-S Slim Series  
Plastic Housing

PS Low Profile Series  
Plastic Housing

PS Industrial Series  
1, 2 & 3 Phase

PS C & W Series  
1 and 2 Phase

CBI Type  
DC UPS Systems

CB Type  
Battery Chargers

Accessories

Appendix