



# PS-75 Series Specifications



## Features:

- Universal AC input / full range
- Protections: Short Circuit / Over load / Overvoltage / Over temperature
- Cooling by free air convection
- DIN rail mountable
- UL508 (industrial control equipment) approved
- LED indicator for power on
- 100% full load burn-in test
- Fix switching frequency at 50KHz
- 3 year warranty

## OUTPUT

## INPUT

## PROTECTION

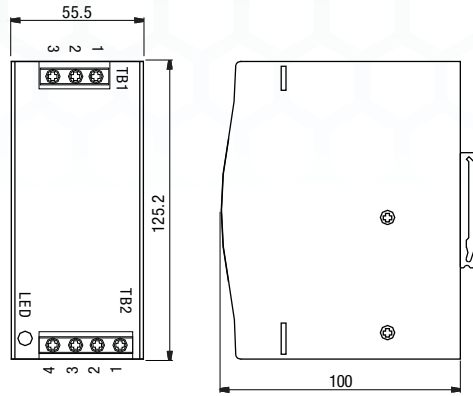
## ENVIRONMENT

## SAFETY & EMC

## OTHERS

Cat. No.	PS-7512	PS-7524	PS-7548
DC VOLTAGE	12V	24V	48V
RATED CURRENT	6.3A	3.2A	1.6A
CURRENT RANGE	0 ~ 6.3A	0 ~ 3.2A	0 ~ 1.6A
RATED POWER	76W	76.8W	76.8W
RIPPLE & NOISE (max)	100mVp-p	150mVp-p	240mVp-p
<small>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF &amp; 47µF parallel capacitor.</small>			
VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 53V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%
<small>Tolerance: includes set up tolerance, line regulation and load regulation.</small>			
LINE REGULATION	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	1000ms, 60ms / 230VAC	1800ms, 60ms / 115VAC at full load	
HOLD UP TIME (Typ.)	60ms / 230VAC	12ms / 115VAC at full load	
VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC	
FREQUENCY RANGE	47 ~ 63Hz		
EFFICIENCY (Typ.)	76%	80%	81%
AC CURRENT (max.)	1.6 A / 115VAC	0.96A / 230VAC	
INRUSH CURRENT (Typ.)	COLD START	20A / 115VAC	40A / 230VAC
LEAKAGE CURRENT	≤ 1mA / 240VAC		
OVERLOAD	105 ~ 150% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed		
OVERVOLTAGE	15 ~ 16.5V	29 ~ 34V	58 ~ 65V
<small>Protection type: Shut down overvoltage, re-power on to recover</small>			
OVERTEMPERATURE	85°C ± 5°C (TSW1) detect on heat sink of power transistor Protection type: Shut down overvoltage, recovers automatically after temperature goes down		
WORKING TEMP.	-10 ~ +60°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 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		
<small>The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</small>			
MTBF	123.1K hrs min. MIL-HDBK-217K (25°C)		
DIMENSION	55.5x125.2x100mm (WxHxD)		
PACKING	0.6Kg; 20pcs / 13Kg / 1.29CUFT		
<small>All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.</small>			

**Mechanical Specification**



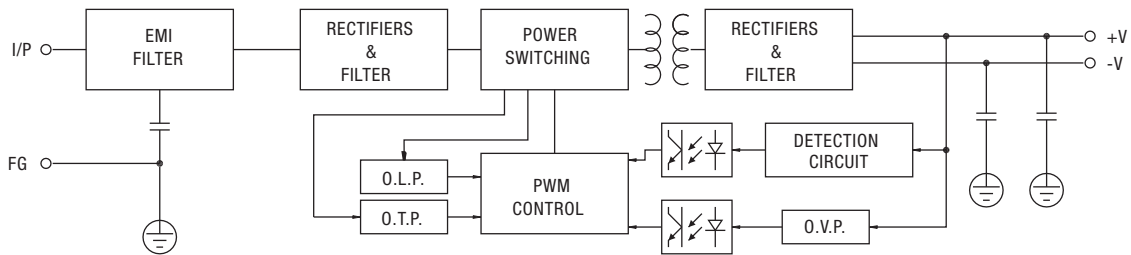
Terminal Pin. No Assignment (TB1)

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

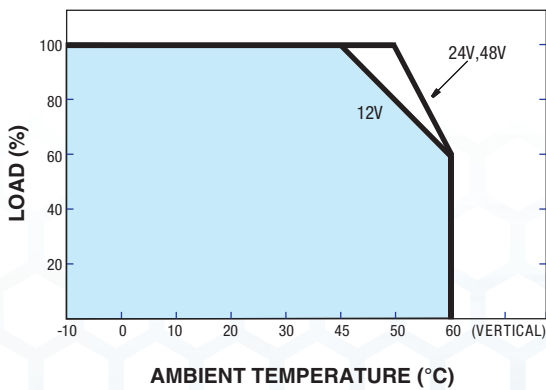
Terminal Pin. No Assignment (TB2)

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

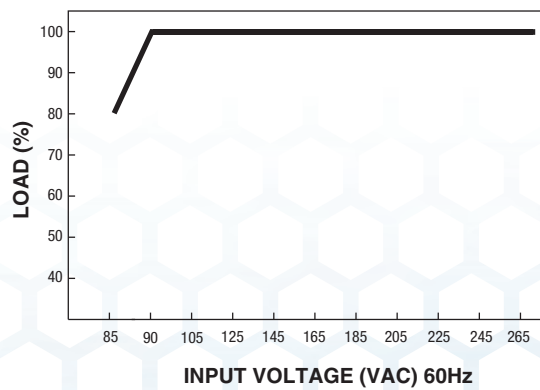
**Block Diagram**



**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