

# **PSH-120 High Input Series**

# **Specifications**







#### Features:

- Universal AC input / full range
- Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Cooling by free air convection
- · Built-in constant current limiting circuit
- DIN rail mountable
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- · Fixed switching frequency at 70KHz
- 3 year warranty

### **OUTPUT**

# INPUT

#### PROTECTION

#### **ENVIRONMENT**

#### SAFETY & EMC

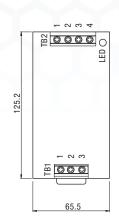
## **OTHERS**

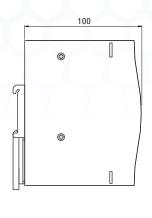
Cat. No.	PSH-12024	PSH-12048
DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max) VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE	24V 5A 0 ~ 5A 120W 80mVp-p Ripple & noise are measured at 20MHz of bandwidth by using a 12 24 ~ 28V ±1.0%	$ \begin{array}{c} 48V \\ 2.5A \\ 0 \sim 2.5A \\ 120W \\ 80mVp-p \\ \\ \text{twisted pair-wire terminated with a } 0.1 \mu\text{F \& } 47 \mu\text{F parallel capacitor.} \\ 48 \sim 55V \\ \pm 1.0\% \\ \end{array} $
LINE REGULATION LOAD REGULATION SETUP, RISE, HOLD UP TIME	Tolerance: includes set up tolerance, line regulation and load reg $\pm 0.5\%$ $\pm 0.5\%$ 1700ms, 120ms, 16ms / 400VAC 1000ms,	±0.5% ±0.5% ±0.5% 120ms, 30ms / 500VAC at full load
VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (max.) INRUSH CURRENT (max.) LEAKAGE CURRENT	340 ~ 550VAC 480 ~ 780VDC 47 ~ 63Hz 85% 0.65A / 400VAC 0.6A / 500VAC COLD START 50A ≤ 3.5 mA / 530VAC	86%
OVERLOAD OVERVOLTAGE OVERTEMPERATURE	$105 \sim 160\% \ rated \ output \ power$ Protection type: Constant current limiting, recovers automatically after fault condition is removed $ \begin{array}{c c} 30 \sim 36V & 59 \sim 66V \\ \hline \end{array}$ Protection type: Shut down overvoltage, re-power on to recover $ \begin{array}{c c} 85^\circ\text{C} \pm 5^\circ\text{C} \ (\text{TSW}: detect \ on \ heat \ sink \ of \ power \ switch) \\ \hline \end{array}$ Protection type: Shut down overvoltage, recovers automatically after temperature goes down	
WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING	$-20 \sim +60^{\circ}\text{C}$ (Refer to output load derating curve $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\text{C}$ , $10 \sim 95\%$ RH $\pm 0.03\%$ / $^{\circ}\text{C}$ (0 $\sim 50^{\circ}\text{C}$ ) $10 \sim 500$ Hz, 2G 10min./1cycle, 60 min. each lor Compliance to IEC60068-2-6	,
SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION EMS IMMUNITY	UL60950-1 approved IEC60950-1 CB compliant I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC (25°C; 70% RH) Compliance to EN55011 (CISPR11); EN55022 (CISPR22); EN61204-3 Class B Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN61204-3; EN61000-6-2; (EN50082-2), heavy industry level; criteria A The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.	
MTBF DIMENSION PACKING	178.7K hrs min. MIL-HDBK-217K (25°C) 65.5x125.2x100mm (WxHxD) 0.75Kg; 20pcs / 16Kg / 1.29CUFT	

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



#### **Mechanical Specification**





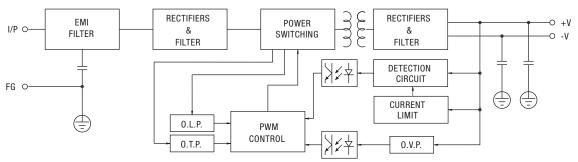
#### Terminal Pin No. Assignment (TB1)

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

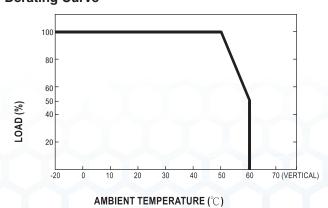
#### Terminal Pin No. Assignment (TB2)

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

#### **Block Diagram**



### **Derating Curve**



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

SC Class 2 Series

PSA FIEX Series

PSB Flex Series

PS-S Slim Series

PS LOW Profile See

os Industrial Series

PS C & W Series

CBI Type

CB Type Chargers

Accessories

Appendix