PLRS-48V

BTH SMPS

75, 100, 150, 200, 350W 12V DC Power Supply

Features:

- AC input 88~264VAC up to 100W
- AC input 110/220VAC selectable by switch for 150W and above
- No Load on power consumption <1W
- High operating temperature up to 70°C
- High efficiency up to 90%
- Protection characteristics:
  short circuit/overload/over voltage/over temperature
- Cooling by free air convection up to 200W
- Withstand 5G vibration test
- 100% full load burn

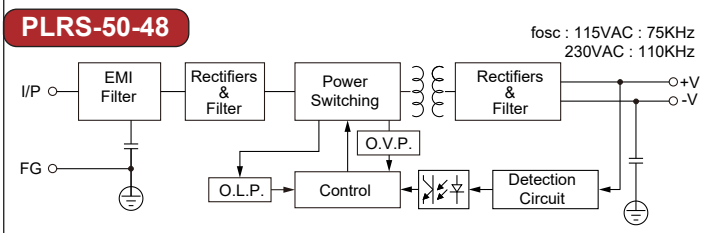
Model & Specification	PLRS-75-48	PLRS-100-48	PLRS-150-48	PLRS-200-48	PLRS-350-48
DC output Volt, Current, Power	48V, 1.6Amp., 75W	48V, 2.3Amp.,100W	48V, 3.3Amp., 150W	48V, 4.4Amp., 200W	48V, 7.3Amp., 350W
Efficiency	91.5%	91%	90%	90%	89%
Dimension	104*97*30mm	134*97*30mm	164*97*30mm	215*115*30mm	215*115*30mm
Input Voltage	88~264VAC		110/220VAC ±20%		
Input Current	1.4A/115VAC 0.85A/230VAC	1.9A/115VAC 1.2A/230VAC	3A/115VAC 1.7A/230VAC	4.0A/115VAC 2.2A/230VAC	6.8A/115VAC 3.4A/230VAC
Voltage Adj. Range	21.6 ~ 28.8V				
Cooling	By free air convection cooling				Fan
Ripple and Noise [1]	200mVp-p				
Inrush Current (typ.)	65A/230VAC	50A/230VAC	60A/230VAC	60A/115/230VAC	
Over Load protection [2]	110%~150% rated output power		110%~140% rated output power		
Setup, Rise, Time at full load	500ms, 30ms/230VAC 500ms, 30ms/115VAC			1300ms, 50ms/230VAC 1300ms, 50ms/115VAC	
Load Regulation [3]	± 0.5%				± 1%
Withstand Voltage	I/P–O/P: 1.5kV I/P–FG: 1.5kV O/P–FG: 0.5kV				
Isolation Resistance	I/P–O/P I/P–FG O/P–FG: 500VDC/100MΩ				
Working Temp., Humidity	– 30°C ~ +50°C / 20~90% RH non-condensing				

Note :

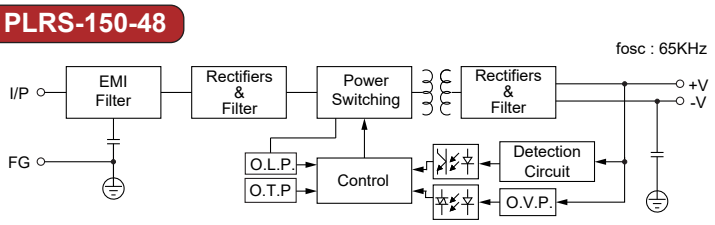
1. Ripple & noise are measured at 20MHz of bandwidth by using a 12°C twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Protection type : Hiccup mode, recovers automatically after fault condition is removed.
3. Load regulation is measured from 0% to 100% rated load.
4. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

■ Block Diagram

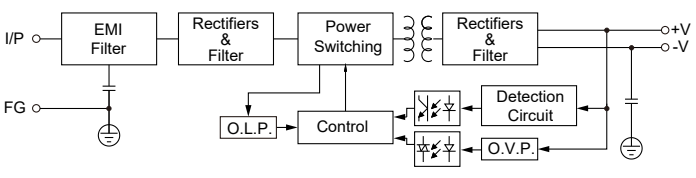
PLRS-50-48



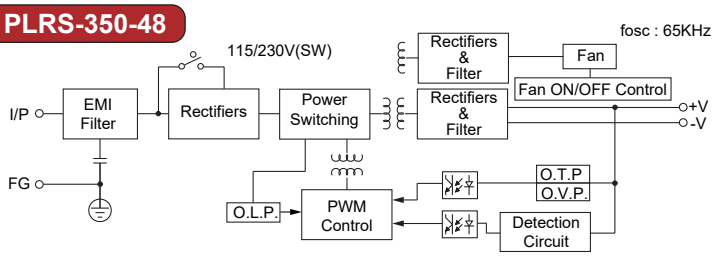
PLRS-150-48



PLRS-75/100-48



PLRS-350-48



All Dimension are in **mm**

The specifications are subject to change without prior notice

BTH PLRS-50-48 Version 1.0 BTH PLRS-100-48 Version 1.0 BTH PLRS-200-48 Version 1.0
BTH PLRS-75-48 Version 1.0 BTH PLRS-150-48 Version 1.0 BTH PLRS-350-48 Version 1.0