

150 Watt Embedded Power Supply

Features

- Universal AC input / Full range
- Built-in active PFC function, PF > 0.95
- High efficiency and high reliability
- Output protections: OLP/OVP/SCP
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- 3 year warranty



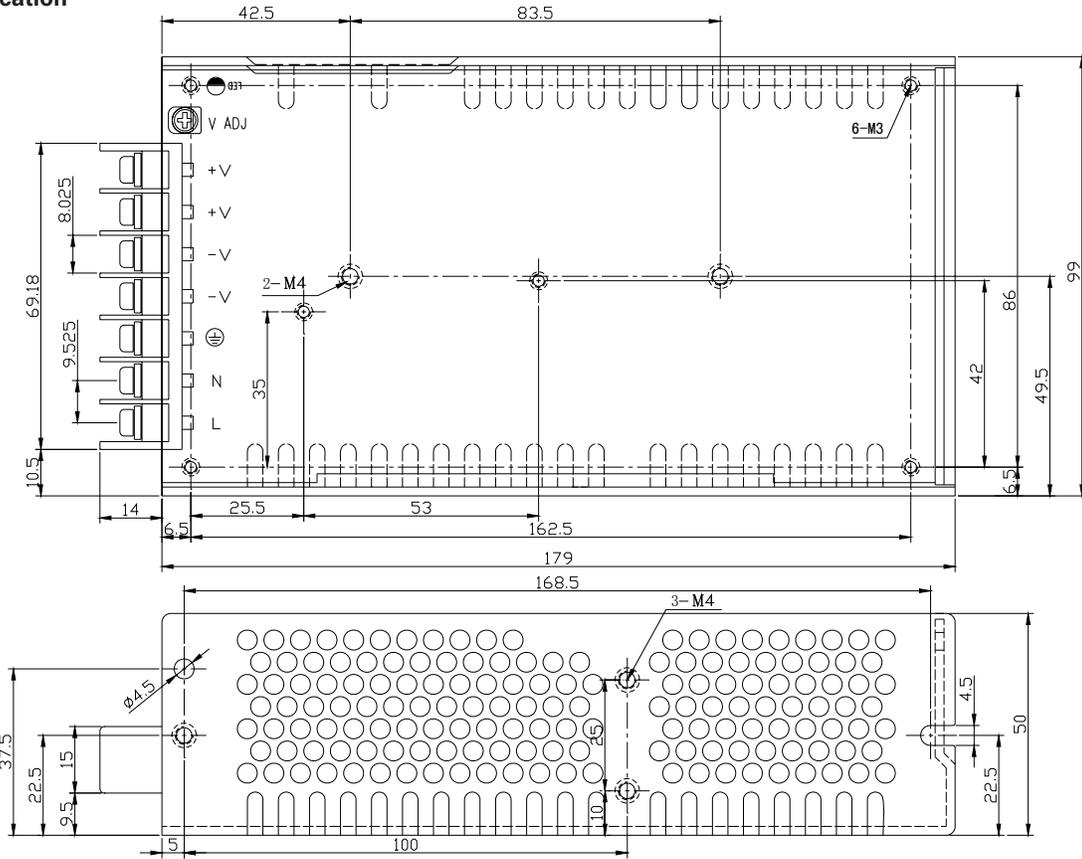
Specifications

PDF-150-5 PDF-150-12 PDF-150-15 PDF-150-24 PDF-150-36 PDF-150-48

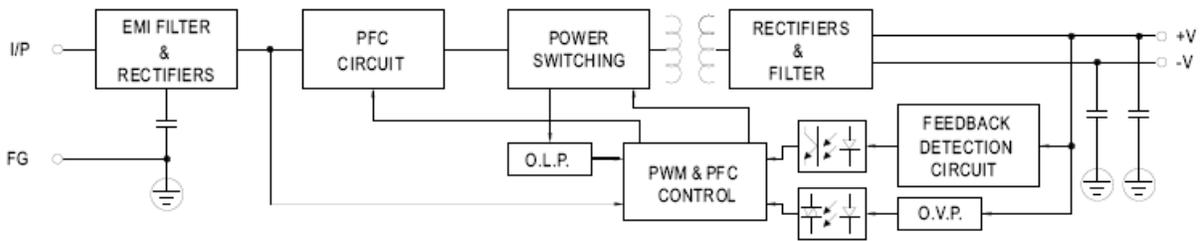
		PDF-150-5	PDF-150-12	PDF-150-15	PDF-150-24	PDF-150-36	PDF-150-48	
OUTPUT	DC Output	5V	12V	15V	24V	36V	48V	
	Rated Current	30A	12.5A	10.0A	6.3A	4.1A	3.2A	
	Current Range (NOTE 1)	0 ~ 30A	0 ~ 12.5A	0 ~ 10A	0 ~ 6.3A	0 ~ 4.1A	0 ~ 3.2A	
	Ripple and Noise (NOTE 2)	< 100mV	< 100mV	< 100mV	< 150mV	< 240mV	< 240mV	
	Voltage ADJ. Range	4.3V ~ 5.6V	10.6V ~ 13.5V	12.7V ~ 17.0V	22.1V ~ 26.7V	33V ~ 40V	44V ~ 52V	
	Voltage Accuracy	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Set-up Time	< 2.0S (115Vac input, Full load); < 1.0S (230Vac input, Full load)						
	Hold up Time	> 20mS (115Vac input, Full load)						
	Temperature Coefficient	±0.03%/°C						
Overshoot and Undershoot	< 5.0%							
INPUT	Voltage Range (NOTE 3)	85Vac ~ 264Vac / 120Vdc ~ 370Vdc						
	Frequency Range	47Hz - 63Hz						
	Power Factor (Typical)	PF > 0.98@115VAC PF > 0.95@230VAC						
	Efficiency (Typical)	115Vac input	80%	83%	83%	84%	83%	84%
		230Vac input	82%	86%	86%	86%	86%	87%
	AC Current (Max.)	2.0A						
	Inrush Current (Typical)	< 30A@115Vac < 60A@230Vac Cold Start						
Leakage Current	Input – output: < 0.25mA Input – PG: < 3.5mA							
PROTECTION	Over Load	105% ~ 150% of rated output current, hiccup mode, auto recovery						
	Over Voltage	110% ~ 150% of rated output voltage, shut down						
	Short Circuit	Long-term mode, auto recovery						
ENVIRONMENT	Operating amb. Temp. & Hum.	-25°C ~ 70°C; 20% ~ 90%RH		No Condensing (refer to the derating curve)				
	Storage Temp. & Hum.	-30°C ~ 85°C; 10% ~ 95%RH		No Condensing				
SAFETY & EMC (NOTE 4)	Safety Standards	UL60950-1; EN60950-1: 2006						
	Withstand Voltage	Primary – Secondary: 3.0KVac; ≤10mA Primary – PG: 1.5KVac; ≤10mA Secondary – PG: 0.5KVDC; ≤10mA						
	Isolation Resistance	≥100M ohms						
	EMI Conduction & Radiation	Compliance to EN55022, Class B						
	Harmonic Current	Compliance to EN61000-3-2, -3 Class D						
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, heavy industry level						
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)						
	Dimension (L*W*H)	194 x 99 x 50 mm						
	Packing	10PCS/CTN, G.W:9.0kgs, 0.04CBM						
	Cooling Method	Cooling by free air convection						
NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives 4. HDP Power offers accessories for Din-35 rail bar. Please contact sales for details. 							

Mechanical Specification

unit: mm



Block Diagram



Derating Curve

