

# 150 Watt Embedded Power Supply

## Features

- AC input selectable by switch (115Vac/230Vac)
- High efficiency and high reliability
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-25°C ~ 70°C)
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- 3 year warranty



## Specifications

		PD-150-5	PD-150-12	PD-150-15	PD-150-24	PD-150-48	
OUTPUT	DC Output	5.0V	12.0V	15.0V	24.0V	48.0V	
	Rated Current	26A	12.5A	10A	6.5A	3.3A	
	Current Range (NOTE 1)	0 ~ 26A	0 ~ 12.5A	0 ~ 10A	0 ~ 6.5A	0 ~ 3.3A	
	Ripple and Noise (NOTE 2)	0 ~ 70°C	< 60mV	< 120mV	< 120mV	< 120mV	< 200mV
		-25°C	< 100mV	< 150mV	< 150mV	< 150mV	< 200mV
	Voltage ADJ. Range	4.6V - 5.5V	11.0V - 13.0V	13.7V - 16.2V	22.4V - 27.3V	44.7V - 51.7V	
	Voltage Accuracy	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±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	> 10mS (115Vac input, Full load); > 20mS (230Vac input, Full load);					
	Temperature Coefficient	±0.03%/°C					
Overshoot and Undershoot	< 5.0%						
INPUT	Voltage Range (NOTE 3)	88Vac ~ 132Vac / 176 ~ 264Vac					
	Frequency Range	47Hz - 63Hz					
	Efficiency (Typical)	115Vac input	78%	83%	83%	85%	85%
		230Vac input	79%	84%	84%	86%	86%
	AC Current (Max.)	< 3.5A					
	Inrush Current (Typical)	< 20A@115Vac < 40A@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	120% ~ 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.	-40°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 (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, light industry level, criteria A					
OTHERS	MTBF (MIL-HDBK-217F)	301,649Hrs (25°C, Full load)					
	Dimension (L*W*H)	199 x 98 x 38 mm					
	Packing	20PCS/CTN, 15KGS, 0.04CBM					
	Cooling Method	Cooling by free air convection					
NOTE	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. AC input range selected by switch 4. 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 5. HDP Power offers accessories for Din-35 rail bar. Please contact sales for details.						

