

PART NUMBER	HDP-15 Series
DESCRIPTION	15 Watt Enclosed Power Supply

HDP-15 Series 15 Watt Embedded Power Supply

Features

- No load power consumption < 0.5W
- Universal AC input range
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 sec.
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-25°C ~ 70°C), full load up to 70°C
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- PCB soldering side with conformal coating
- Suitable for critical applications
- 3 year warranty



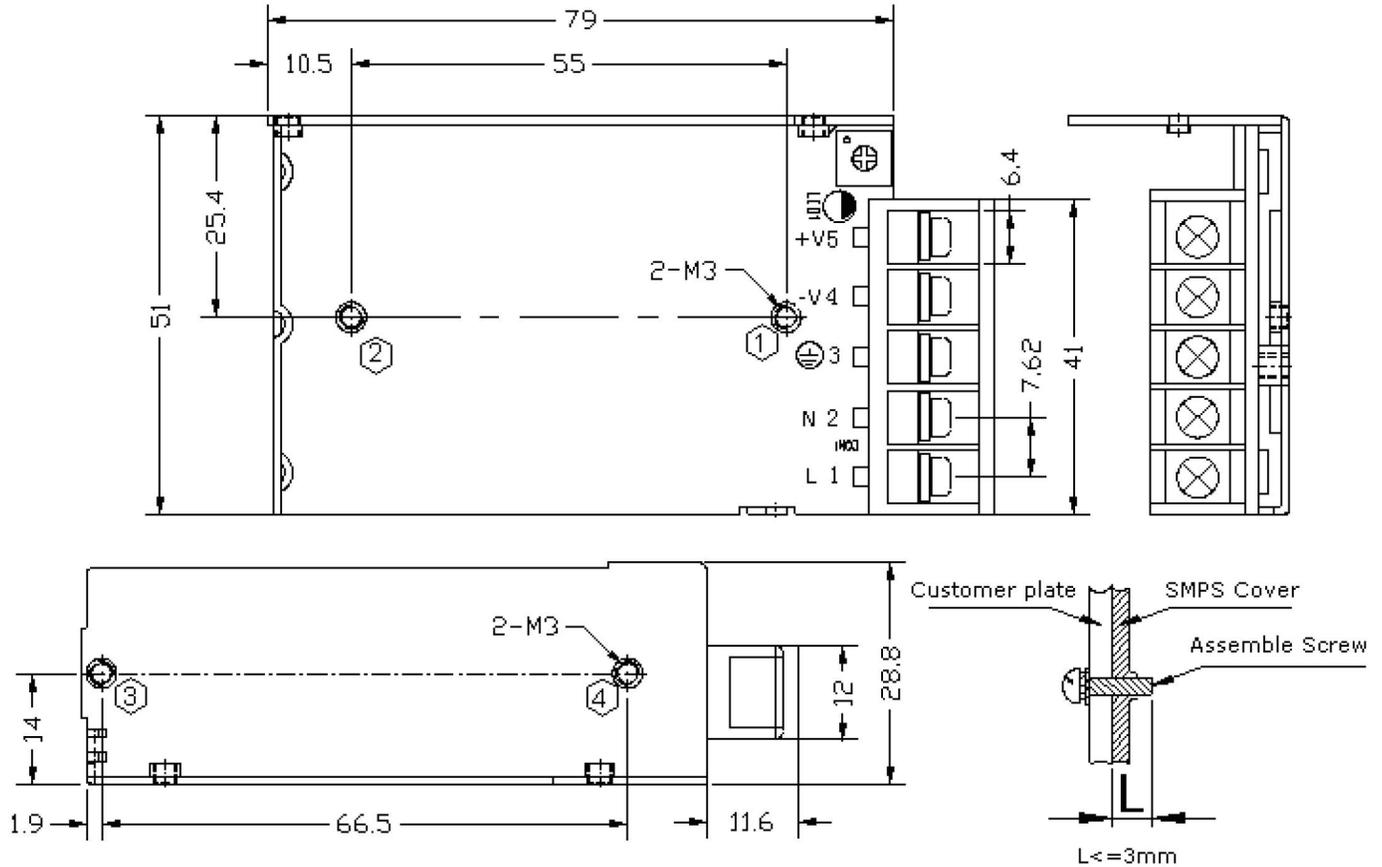
Specifications

		HDP-15-3.3	HDP-15-5	HDP-15-12	HDP-15-15	HDP-15-24	
OUTPUT	DC Output	3.3V	5V	12V	15V	24V	
	Rated Current	4A	3A	1.3A	1A	0.7A	
	Current Range (NOTE 1)	0 ~ 4A	0 ~ 3A	0 ~ 1.3A	0 ~ 1.0A	0 ~ 0.7A	
	Ripple and Noise (NOTE 2)	-25°C ~ 70°C < 50mV	< 50mV	< 120mV	< 120mV	< 120mV	
	Voltage ADJ. Range	-5% ~ +10% of rated output voltage					
	Voltage Accuracy	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±2.0%	±2.0%	±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	88Vac ~ 264Vac, 124 ~ 370Vdc				
		Frequency Range	47Hz ~ 63Hz				
Efficiency (Typical)		115 Vac input 70%	76%	80%	82%	84%	
		230 Vac input 71%	78%	82%	83%	85%	
AC Current (Max.)		0.7A					
Inrush Current (Typical)		20A@115Vac 40A@230Vac Cold Start					
PROTECTION	Leakage Current	Input – output: < 0.25mA Input – PG: < 3.5mA					
	Over Load	105% ~ 150% of rated output current, hiccup mode, auto recovery					
	Over Voltage	105% ~ 150% of rated output voltage, Constant voltage					
ENVIRONMENT	Short Circuit	Long-term mode, auto recovery					
	Operating amb. Temp. & Hum.	-25°C ~ 70°C; 20% ~ 90%RH No Condensing					
SAFETY & EMC (NOTE 3)	Storage Temp. & Hum.	-40°C ~ 85°C; 10% ~ 95%RH No Condensing					
	Safety Standards	UL60950-1 2nd Ed; IEC 60950-1:2005 (2nd Ed); EN60950-1: 2006					
	Withstand Voltage	Primary – Secondary: 3.0KVac; ≤10mA Primary – PG: 1.5KVac; ≤10mA Secondary – PG: 0.5KVac; ≤10mA					
	Isolation Resistance	≥100M ohms					
	EMC Emission	Compliance to EN55022, EN55024 Class B					
	Harmonic Current	Compliance to EN61000-3-2, -3					
OTHERS	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, EN61000-6-2 heavy industry level					
	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)					
	Dimension (L*W*H)	79 x 51 x 28 mm					
	Packing	48PCS/CTN, 10.4KGS, 0.03CBM					
NOTE	Cooling Method	Cooling by free air convection					
		<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 & 10uF 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. 					

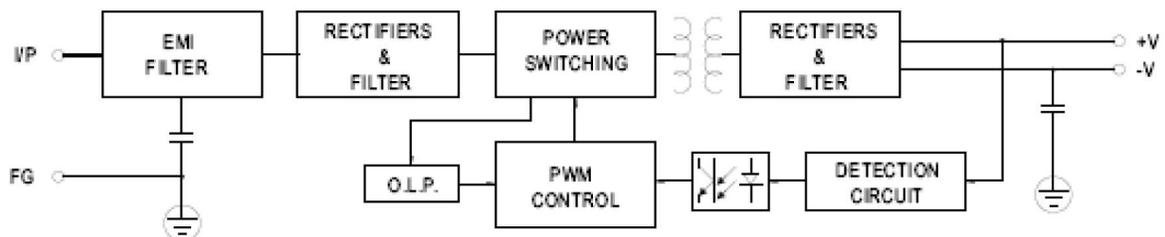
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Mechanical Specification

Unit: mm (Tolerance is ±1mm)



Block Diagram



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Derating Curve

