

PART NUMBER	HDP-35 Series
DESCRIPTION	35 Watt Enclosed Power Supply

HDP-35 Series 35 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), 100% @ 50°C, 60% @ 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



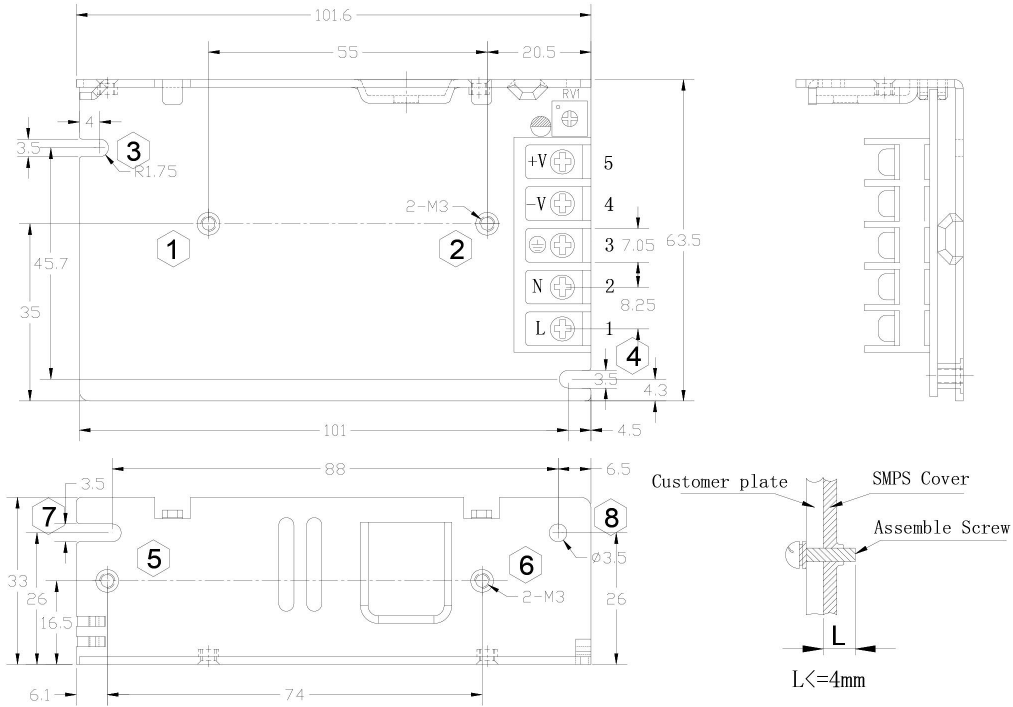
Specifications

		HDP-35-5	HDP-35-12	HDP-35-15	HDP-35-24	HDP-35-48	
OUTPUT	DC Output	5V	12V	15V	24V	48V	
	Rated Current	6A	3A	2.4A	1.5A	0.76A	
	Current Range (NOTE 1)	0 ~ 6A	0 ~ 3A	0 ~ 2.4A	0 ~ 1.5A	0 ~ 0.76A	
	Ripple and Noise (NOTE 2)	0 ~ 70°C	< 50mV	< 80mV	< 120mV	< 120mV	< 180mV
		-25°C ~ 0°C	< 80mV	< 180mV	< 200mV	≤ 200mV	< 240mV
	Voltage ADJ. Range	-5% ~ +10% of rated output voltage					
	Voltage Accuracy	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	
	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	< 1S (230Vac input, Full load)					
	Hold-up Time	>20mS (230Vac input, Full load); > 10mS (120Vac input, Full load);					
	Temperature Coefficient	±0.03%/°C					
	Overshoot and Undershoot	< 5.0%					
INPUT	Voltage Range	90Vac ~ 264Vac, 127 ~ 370Vdc					
	Frequency Range	47Hz ~ 63Hz					
	Efficiency (Typical)	115Vac input	79%	83%	85%	86%	87%
		230Vac input	80%	84%	86%	87%	88%
	AC Current (Max.)	< 1A (max)	0.7A	0.7A	0.7A	0.7A	
	Inrush Current (Typical)	< 50A@230Vac Cold Start					
	Leakage Current	Input – output: < 3.5mA Input – PG: < 0.25mA					
PROTECTION	Over Load	105% ~ 150% of rated output current, hiccup mode, auto recovery					
	Over Voltage	105% ~ 150% of rated output voltage, Constant voltage					
	Shorted 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 3)	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					
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, EN61000-6-2 heavy industry level					
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)					
	Dimension (L*W*H)	101.6 x 63.5 x 33 mm					
	Packing	60PCS/CTN, 15.18KGS, 0.06CBM					
	Cooling Method	Cooling by free air convection					
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac 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.						

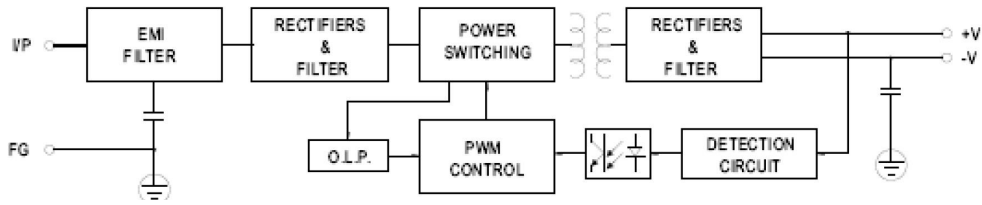
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Mechanical Specification

Unit: mm (Tolerance is ±1mm)



Block Diagram



Derating Curve

