# 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



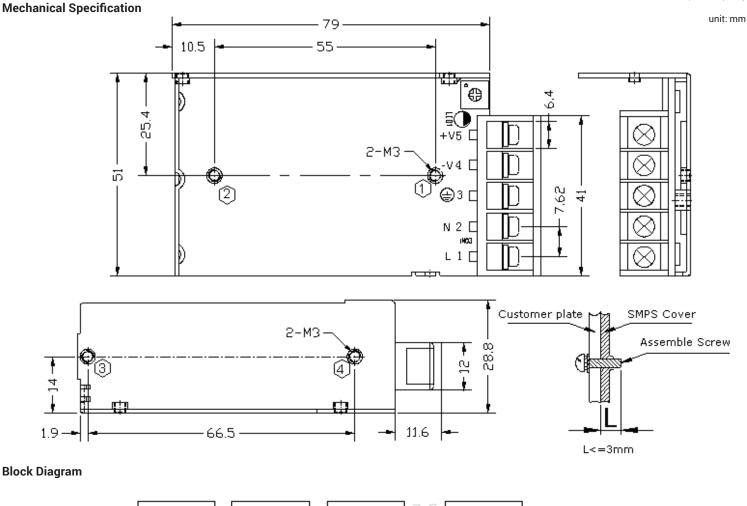
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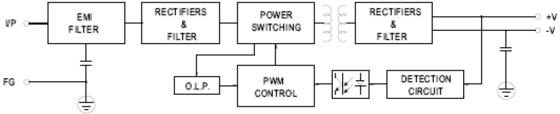
Specifica	itions		PD-15-3.3	PD-15-5	PD-15-12	PD-15-15	PD-15-24	
OUTPUT	DC Output		3.3V	5V	12V	15V	24V	
	Rated Current		4A	3A	1.3A	1A	0.7A	
	Current Range (NOTE 1)		0 ~ 4A	0 ~ 3A	0 ~ 1.3A	0 ~ 1.0A	0 ~ 0.7A	
	Ripple and Noise (NOTE 2)	-25°C ~ 70°C	< 50mV	< 50mV	< 120mV	< 120mV	< 120mV	
	Voltage ADJ. Range		-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	47Hz ~ 63Hz				
	Efficiency (Typical)	115Vac input	70%	76%	80%	82%	84%	
		230Vac input	71%	78%	82%	83%	85%	
	AC Current (Max.)		0.7A	0.7A	0.7A	0.7A	0.7A	
	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		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					
	Storage Temp. & Hum.		-40°C ~ 85°C; 10% ~ 95%RH No Condensing					
SAFETY & EMC (NOTE 3)	Safety Standards		UL60950-1 2 <sup>nd</sup> Ed; IEC 60950-1:2005 (2 <sup>nd</sup> Ed); EN60950-1: 2006					
	Withstand Voltage		Primary – Second	Primary - Secondary: 3.0KVac; ≤10mA Primary - PG: 1.5KVac; ≤10mA Secondary - PG: 0.5KVac; ≤10m				
	Isolation Resistance		≥100M ohms	≥100M ohms				
	EMC Emission		Compliance to EN	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)		79 x 51 x 28 mm					
	Packing		48PCS/CTN, 10.4KGS, 0.03CBM					
	Cooling Method		Cooling by free ai	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 & 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.							

# PD-15 Series | 15 Watt Embedded Power Supply



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## **Derating Curve**

