



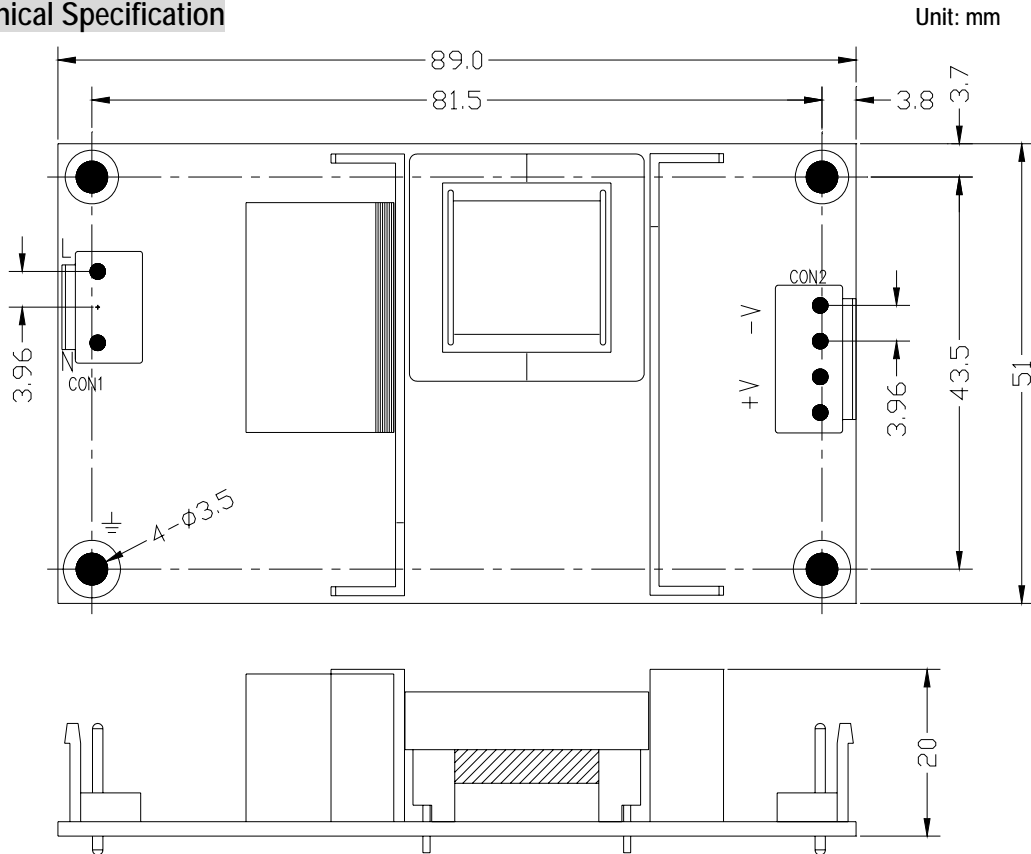
**Features:**

- Universal AC input/ Full range
- High Efficiency, and High reliability
- Ultra-miniature size, low profile
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-20°C~60°C)
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- 3 years warranty

**SPECIFICATION**

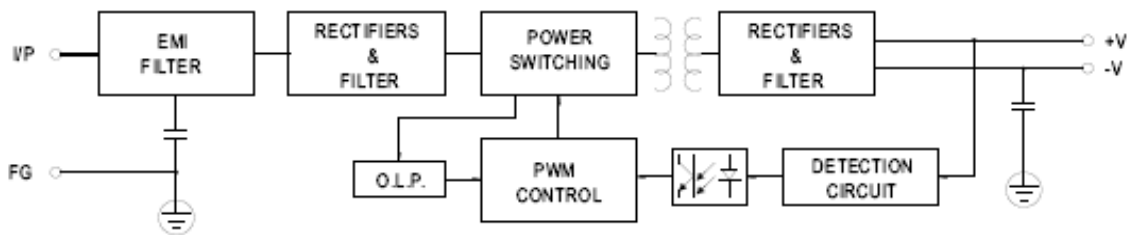
MODEL		PD-20-5	PD-20-12	PD-20-15	PD-20-24	PD-20-48	
OUTPUT	DC Output	5V	12V	15V	24V	48V	
	Rated Current	4A	1.67A	1.34A	0.84A	0.42A	
	Current Range	Note 1 0~4A	0~1.67A	0~1.34A	0~0.84A	0~0.42A	
	Ripple and Noise	0~50°C	50mV	120mV	100mV	100mV	100mV
		Note 2 -10~0°C	75mV	120mV	100mV	100mV	100mV
	Voltage ADJ. Range	±10% of rated output voltage					
	Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	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	85Vac~264Vac					
	Frequency Range	47Hz~63Hz					
	Efficiency ( Typical)	115Vacinput	72%	78%	80%	78%	78%
		230Vacinput	72%	78%	80%	76%	78%
	AC Current (max.)	0.5A	0.5A	0.5A	0.5A	0.5A	
	Inrush Current (Typical)	Cold start 20A@115Vac 40A@230Vac					
Leakage Current	Input—output:<0.35mA Input—PG:<0.75mA						
PROTECTION	Over Load	105%~150% rated output power; Hiccup mode, auto recovery					
	Over Voltage	110%~140% of rated output voltage, Constant Voltage.					
	Short Circuit	Long-term mode, auto recovery					
ENVIRONMENT	Operating amb. Temp. & Hum.	-20°C~60°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; 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)ClassB					
	Harmonic Current	Compliance to EN61000-3-2,17625.1-2003					
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11;ENV50204,light industry level,criteriaA						
OTHERS	MTBF (MIL-HDBK-217F)	More than 100,000Hrs (25°C, Full load)					
	Dimension (L*W*H)	89*51*20mm					
	Packing	60PCS/CTN, 7.6KGS, 0.017CBM					
	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. 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.						

**Mechanical Specification**



Item	Connectors	Mating Housing	Contacts
AC IN(CON1)	LANDWIN3961P0300T (Central Pin removed)	LANDWIN 3960S or JST VHR or Molex 51144	LANDWIN 3963T011R or JST SVH-21T-P1.1 Or Molex 50539
DC OUT(CON2)	LANDWIN 3961P0400T		

**Block Diagram**



**Derating Curve**

