

## ■ 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

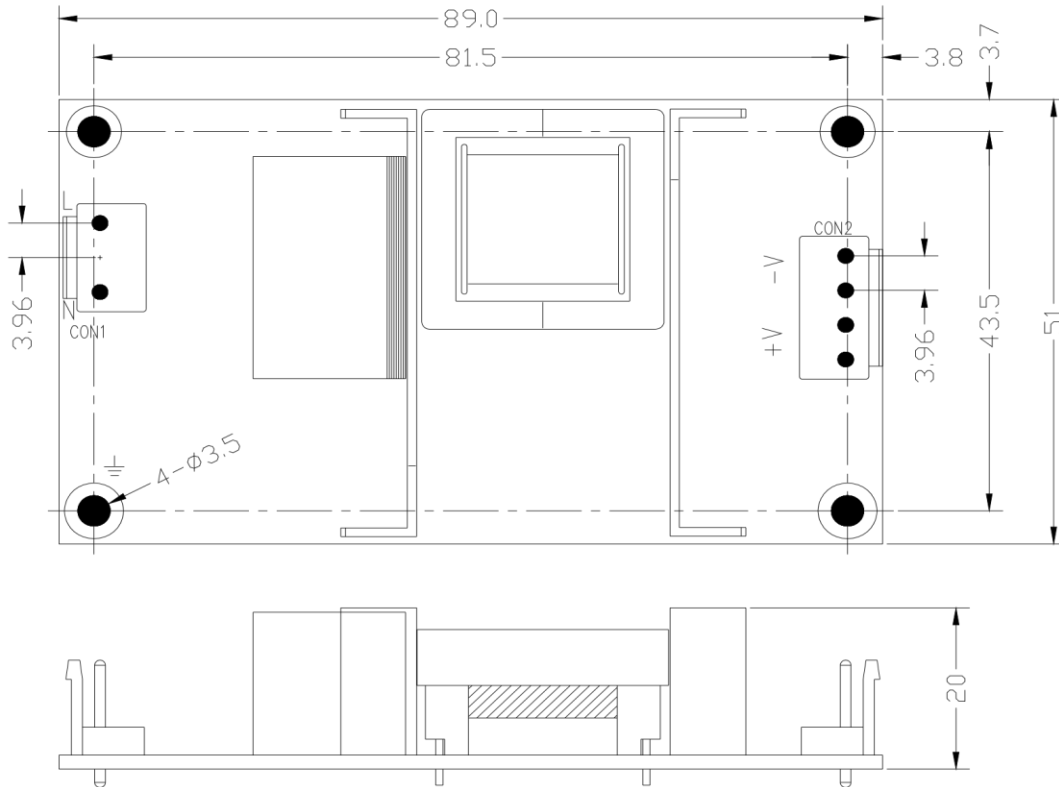


## SPECIFICATION

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
		-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, G.W:7.6kgs				
	Cooling method		Cooling by free air convection				

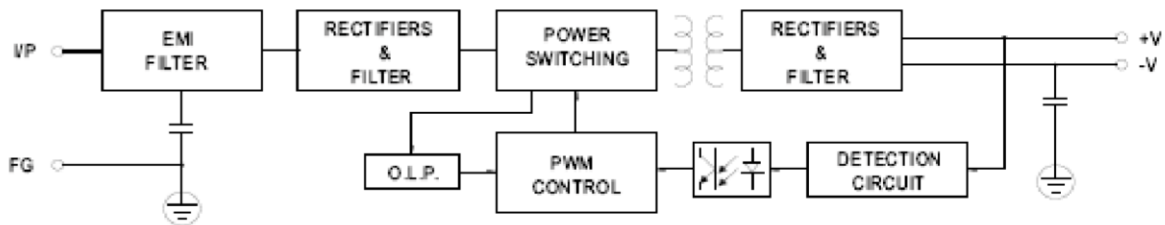
**Mechanical Specification**

Unit: mm



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

**Block Diagram**



**Derating Curve**

