



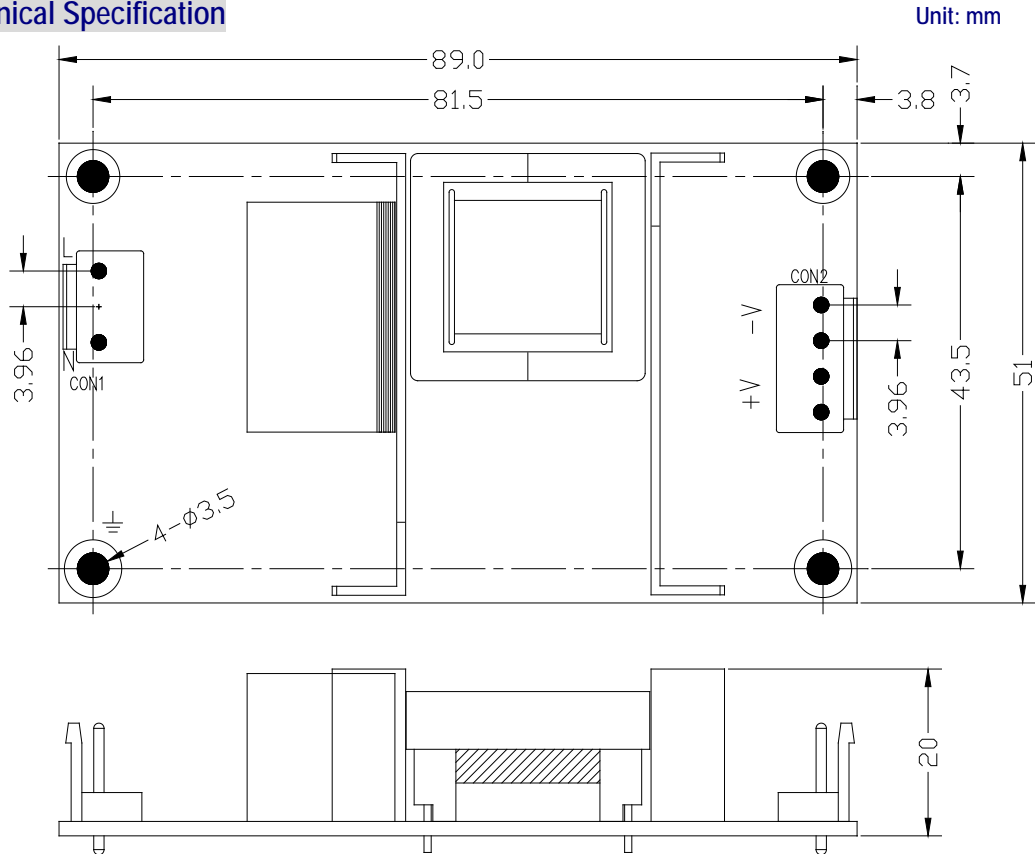
Features:

- Universal AC input/ Full range
- High Efficiency, and High reliability
- Ultra-miniature size, low profile
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-25°C~70°C)
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

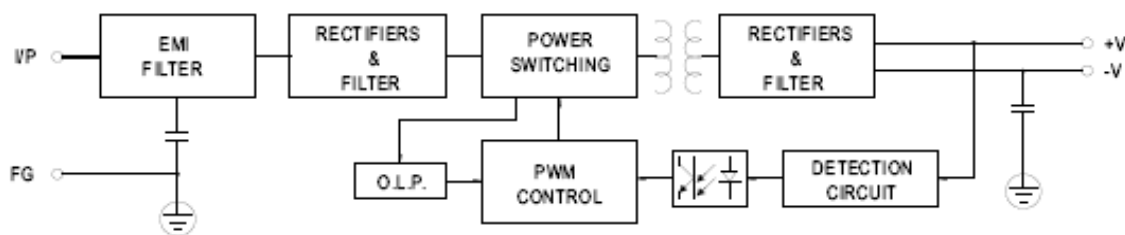
MODEL		MFPD-20-3.3	MFPD-20-5	MFPD-20-12	MFPD-20-15	MFPD-20-24	MFPD-20-48	
OUTPUT	DC Output	3.3V	5V	12V	15V	24V	48V	
	Rated Current	4A	4A	1.67A	1.34A	0.84A	0.42A	
	Current Range	Note 1	0~4A	0~4A	0~1.67A	0~1.34A	0~0.84A	0~0.42A
	Ripple and Noise	0~60 °C	<50mV	<50mV	<50mV	<50mV	<50mV	<100mV
		Note 2 -20~0 °C	<75mV	<75mV	<75mV	<75mV	<75mV	<100mV
	Voltage ADJ. Range	3.1~3.6V	4.4~5.6V	11.1~13.1V	13.7~16.1V	22.0~25.4V	45.6~50.4V	
	Voltage Accuracy		±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	Line Regulation		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation		±2.0%	±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, 120Vdc~370Vdc						
	Frequency Range	47Hz~63Hz						
	Efficiency (Typical)	115Vacinput	69%	76%	79%	80%	80%	80%
		230Vacinput	68%	75%	78%	79%	79%	79%
	AC Current (max.)		0.4A	0.5	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.	-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; EN60950-1: 2006						
	Withstand Voltage	Primary-Secondary:3.0kV;≤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 200,000Hrs (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	<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 & 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

