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<b>DESCRIPTION</b>	60 Watt Open Frame Power Supply	

## HDP-O-60 Series 60 Watt Open Frame Power Supply

### Features

- Universal AC input / Full range
- High efficiency, low power consumption
- No Load Power Consumption  $\leq 0.5W$
- Output protections: SCP/OVP/OLP
- Wide operating ambient temperature (-25°C~70°C)
- All using 105°C long life electrolytic capacitors
- 100%full load burn-in test
- 3 year warranty



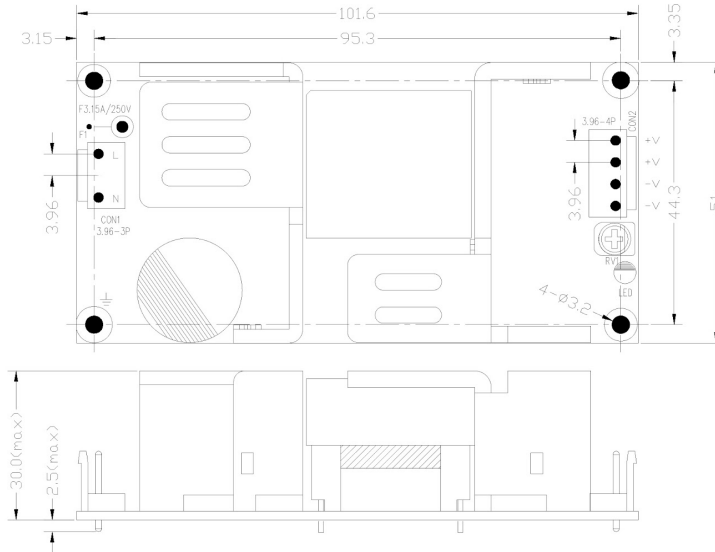
### Specifications

		HDP-O-60-5	HDP-O-60-12	HDP-O-60-15	HDP-O-60-24	HDP-O-60-48	
OUTPUT	DC Output	5.0V	12.0V	15.0V	24.0V	48.0V	
	Rated Current	8.0A	4.5A	3.6A	2.5A	1.25A	
	Ripple and Noise (NOTE 1)	0 ~ 70°C <50mV -25°C ~ 0°C <200mV	<50mV <300mV	<120mV <300mV	<120mV <300mV	<240mV <300mV	<240mV <360mV
	Voltage ADJ. Range	4.5 ~ 5.5V	11.2 ~ 13.4V	13.8 ~ 16.5V	22.2 ~ 27.9V	45.0 ~ 53.2V	
	Voltage Accuracy	±3.0%					
	Line Regulation	±0.5%					
	Load Regulation	±2.0%					
	Set-up Time	≤ 1.0S (230Vac Input, Full load)					
	Hold up Time	≥ 20mS (230Vac input, Full load)					
	Temperature Coefficient	±0.03%/°C					
	Overshoot and Undershoot	< 5.0%					
	INPUT	Voltage Range (NOTE 2)	90Vac ~ 264Vac, 127Vdc ~ 370Vdc				
		Frequency Range	47Hz – 63Hz				
Efficiency (Typical)		115Vac input 79%	83%	84%	87%	85%	
		230Vac input 82%	85%	85%	87%	88%	
AC Current (Max.)		< 1.5A					
Inrush Current (Typical)		< 30A@120Vac	< 60A@230Vac	Cold Start			
PROTECTION	Leakage Current	≤ 0.25mA					
	Over Load	105% ~ 180% of rated output current, hiccup mode, auto recovery					
	Over Voltage	110% ~ 150% of rated output voltage, constant voltage					
ENVIRONMENT	Shorted Circuit	Long-term mode, auto recovery					
	Operating Amb. Temp. & Hum.	-20°C ~ 70°C; 20% ~ 90%RH	No Condensing (refer to the derating curve)				
SAFETY & EMC (NOTE 3)	Storage Temp. & Hum.	-40°C ~ 85°C; 10% ~ 95%RH	No Condensing				
	Safety Standards	UL60950-1; EN60950-1:2006					
	Withstand Voltage	Primary – Secondary: 3.0KVac; ≤10mA					
	Isolation Resistance	≥100M ohms					
	EMI Conduction & Radiation	Compliance to EN55022 (CISPR22) Class B					
	Harmonic Current	Compliance to EN61000-3-2, -3					
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, light industry level, criteria A					
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)					
	Dimension (L*W*H)	101.6 x 50.8 x 30 mm					
	Packing	60PCS/CTN, 12KGS, 0.024CBM					
	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						

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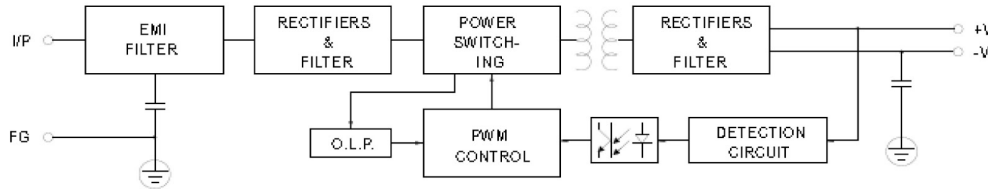
### Mechanical Specification

Unit: mm (Tolerance is ±1mm)



Item	Connectors	Mating Housing	Contacts
AC IN(CON1)	LANDWIN3961P0300T =Molex53520-0320(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 =Molex53520-0420		

### Block Diagram



### Derating Curve

