

IPX-060PxxM Series

60W series single output LED driver

Features

- · Constant voltage design.
- 180-264 VAC input range.
- Fully encapsulated with IP67 level.
- Protections: shart circuit / over load.
- Cooling by free air convection.
- 100% full load burn-in test.
- Suitable for LED lighting and moving sign applications.
- · High reliability / Low cost.



Specification

	Model	IPX-060P12M	IPX-060P24M	
Output	DC Voltage	12V	24V	
	Rated current	5A	2.5A	
	Current range	0 ~ 5A	0 ~ 2.5A	
	Rated power	60W	60W	
	Ripple&noise	120mVp-p	150mVp-p	
	Voltage tolerance	±3.0%	±2.0%	
	Line regulation	±1.0%		
	Load regulation	±2.0%		
	Setup, rise time	800ms, 20ms/230VAC at full load		
	Hold up time	24ms/230VAC at full load		
Input	Voltage range	180 ~ 264VAC	255 ~ 373VDC	
	Efficiency	82%	85%	
	Frequency range	47~63Hz		
	AC current	0.85A/230VAC		
	Inrush current	Cold start 45A/230VAC (twidth)500µs meausred at 50%lpeak)		
	Leakage current	<0.5mA/240VAC		
Protection	Overload	110% ~ 135% rated output power Start overload protection		
		Protection type: hiccup mode, auto-recovery alter fault condition is removed		
Environment	Working temperature	-20°C ~ +50°C (Please refer to "derating curve")		
	Working humidity	20%~90%RH Non-condensing		
	Storage temp, humidity	-40°C ~ +85°C; 10% ~ 95% RH		
	Temp. coeficient	±0.03%/°C (0~50°C)		
	Vibration	10 ~ 500Hz, 5G 10min/1 Cycle, Period for 60min, Each axes		
Safety&EMC	Safety standards	Compliance to IEC62368-1,UL62368-1, EN62368-1,IEC61347-1,UL61347, EN61347-1		
	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
	Isolation resistance	I/P-O/P: 100M Ohms/500VDC/25°C/70%RH		
	EMC emission	Compliance to EN55015(CISPR22)Class A, GB9254 Class A,EN55014,EN61000-3-2,3		
	EMC immunity	Compliance to EN61000-4-2,3,4,5,6,8,11,EN55024, light industry level, criteria A		
Others	MTBF	890K hrs min. MIL-HDBK-217F(25°C)		
	Dimension	222*30*20mm (L*W*H)		
	Packing	0.26kg/100pcs/26kgs/0.039m ³ /1.39CUFT		

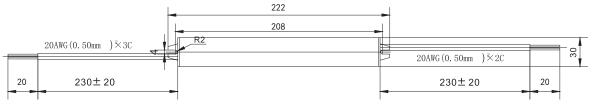
Note:

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-quailfy EMC Directive on the complete installation again.
- 5. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
- 6. Derating may be needed under low input voltage. Please check the static characteristics form more details.
- 7. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.



Mechanical specification

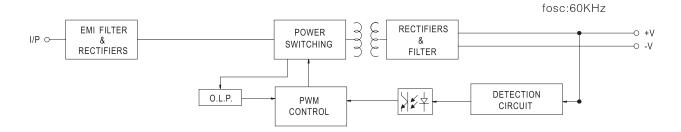




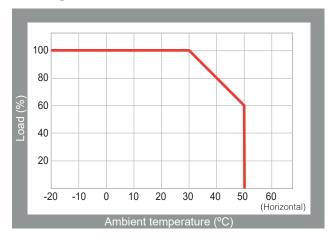
Lead-out wire assigment

Input (Black	three-core)	Output (White two-core)	
Brown	AC/L	Red	DC OUTPUT +V
Blue	AC/N	Black	DC OUTPUT -V
Yellow-green	FG ±	Shell connect with earth	

Block diagram



Derating curve



Static characteristics

