Sign LEDs & Accessories

CLASS 2 POWER SUPPLY

60W - SINGLE Output 60W, 12VDC 5A

Constant Voltage Circuit

LP-1206

7 Years Warranty

DC12V | Constant Voltage | IP68 | c UL us E306782 | CE | RoHS | 7 Years Warranty

M | M | F | SELV

- Constant Voltage
- AC Input Voltage: 90 ~ 295VAC
- DC Output: 60W - Single 60W 12VDC 5A
- Protection: SCP, OCP, OTP
- Surge Protection: 2KV/ 4KV
- IP67
- Waterproof Aluminum Metal Case
- UL Safety standards: UL 62368 UL 8750 UL 1310
- EMC
- 7 Years warranty

c UL us | c UL us LISTED | c ETL us | RoHS

SELV

Features

- Input Voltage Range:90-295Vac
- Aluminum Metal Case With IP67; Suitable For Outdoor Applications
- Protection Functions:SCP/OCP/OTP
- Surge Protection With 2KV/4KV

7 YEARS WARRANTY

Application

- LED strip lighting
- LED channel letters
- LED interior lighting
- LED decorative lighting

Model

IP67 SELV Class 2 Power Supply

MODEL	OUTPUT CURRENT	OUTPUT VOLTAGE	OUTPUT POWER	EFFICIENCY
LP-1260	0-5.0A	12Vdc	60W	87%

Safety Standards

SAFETY CERTIFICATION	STANDARDS
CCC	GB 4943-1;GB19510
CE	EN 62368-1;EN61347;EN 62384
UL	UL 62368 UL 8750 UL 1310

EMC

EMC	STANDARDS & NOTE
CONDUCTION	EN 55032;EN 55015; GB/T 9254;GB/T 17743
RADIATION	EN 55032;EN 55015; GB/T 9254;GB/T 17743
VOLTAGE FLUCTUATIONS & FLICKER	EN 61000-3-3
SURGE IMMUNITY	EN 61000-4-5;GB 17625.5 Surge Immunity Test: Line-Line: 2KV; Line-Earth:4KV

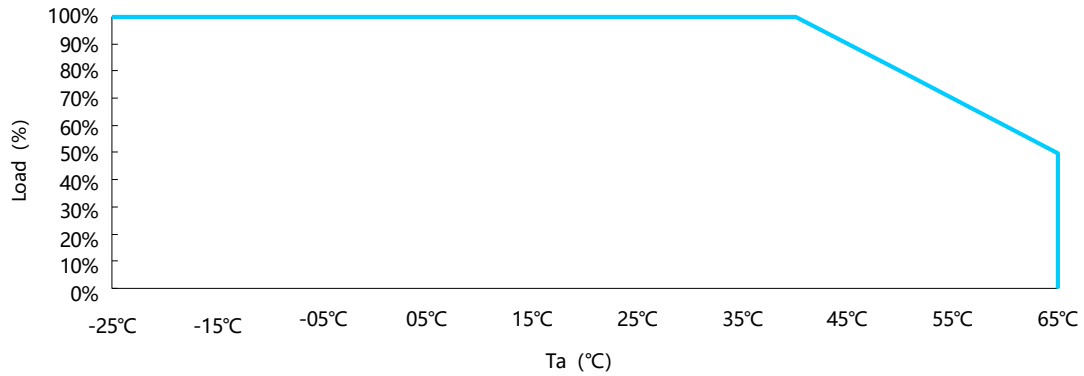
	PARAMETER	MIN.	TYP.	MAX.	NOTE
INPUT	INPUT VOLTAGERANGE	90Vac		295Vac	Refer to “OUTPUT LOAD VS INPUT VOLTAGE”
	INPUT FREQUENCY RANGE	47Hz		63Hz	
	INPUT CURRENT			1.3A	
	EFFICIENY	87%	88%	89%	230Vac Full Load
	LEAKAGE CURRENT			0.75mA	240Vac/50Hz
OUTPUT	VOLTAGE TOLERANCE	-5%		+5%	
	RIPPLE & NOISE			60mV	Ripple & Noise are measured at 20MHz of band width by using12” twisted pair-wireterminated with a 0.1uF & 47uF parallel capacitor
	OVER SHOOT		+10%	+15%	Full Load
	LINE REGULATION	-1%		+1%	
	LOAD REGULATION	-2%		+2%	
	SHORT CIRCUIT PROTECTION			5W	
	START-UP TIME			1000mS	230Vac/Full Load
				2000mS	115Vac/Full Load
	NO LOAD POWER CONSUMPTION			1W	220Vac/Full Load
TEMP. & STORAGE	WORKING TEMPERATURE	-25℃		+65℃	Refer to “OUTPUT LOAD VS TEMPERATURE”
	MAX CASE TEMPERATURE			+90℃	
	STORAGE TEMPERATURE	-30℃		+80℃	
	WORKING HUMIDITY	20% RH		90% RH	Non-Condensing
	STORAGE HUMIDITY	10% RH		90% RH	
	TEMPERATURE LOEFFICIENT	-0.03%/℃		+0.03%/℃	
PROTECTION	OTP	Hiccup mode;recovers automatically after fault conditions is removed			
	OCP	Hiccup mode;recovers automatically after fault conditions is removed			
	SCP	Hiccup mode;recovers automatically after fault conditions is removed			
ISOLATION AND WITHSTAND	WITHSTAND VOLTAGE	I/P—O/P:3.75KVac; I/P-FG:1.8KVac;O/P-FG:0.5KVac			
	ISOLATION RESISTANCE	I/P—O/P:100M Ohm/500Vdc/25℃/70%RH			
OTHERS	M T B F	≥635Khrs. MIL-HDBK-217F(25℃)			
	DIMENSION & WEIGHT	Net Weight:0.365Kg L*W*H(mm):143*49*33 (mm)			
	PACKING DIMENSION & WEIGHT	Gross Weight:12 Kg/ Box Quantity:30 Pcs/Box L*W*H(mm): 390*208*255 (mm)			

NOTES

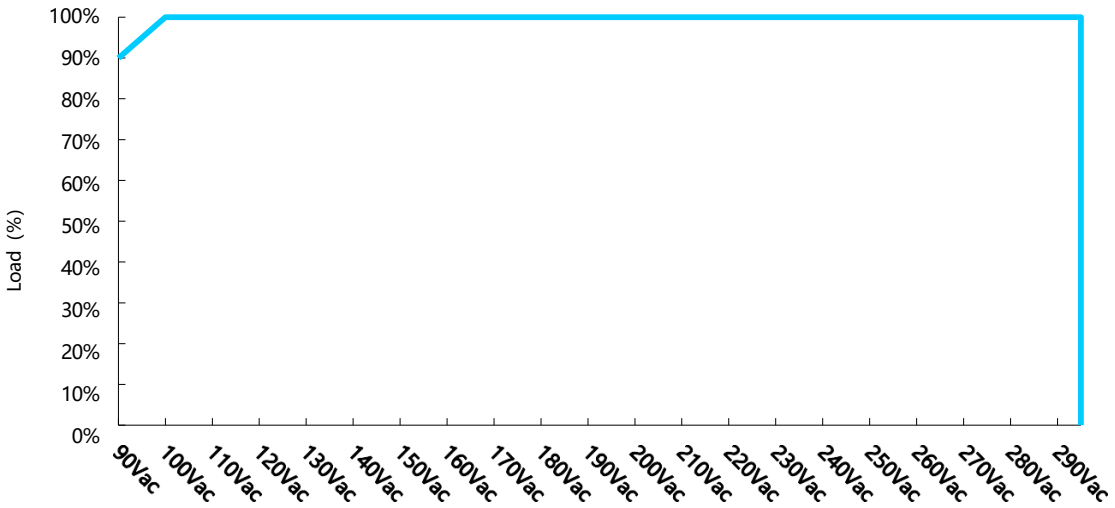
1. In order to extend the service life, it is recommended to leave 20% more allowance when loading.
2. Derating may be needed under low input voltage ,please refer to “OUTPUT LOAD VS INPUT VOLTAGE;”
3. All parameters NOT specially mentioned are measured at 230Vac input,rated load and 25℃ of ambient temperature.
4. It is important to have enough ventilation of a power supply for longer life span and higher reliability.
5. Do not install the power supply in a place that is completed sealed or close to flammable or explosive objects.
6. Choose wires with correct AWG or copper area for electrical connection according to the rated current.

◆ Characteristic Performance Curve

OUTPUT LOAD VS TEMPERATURE



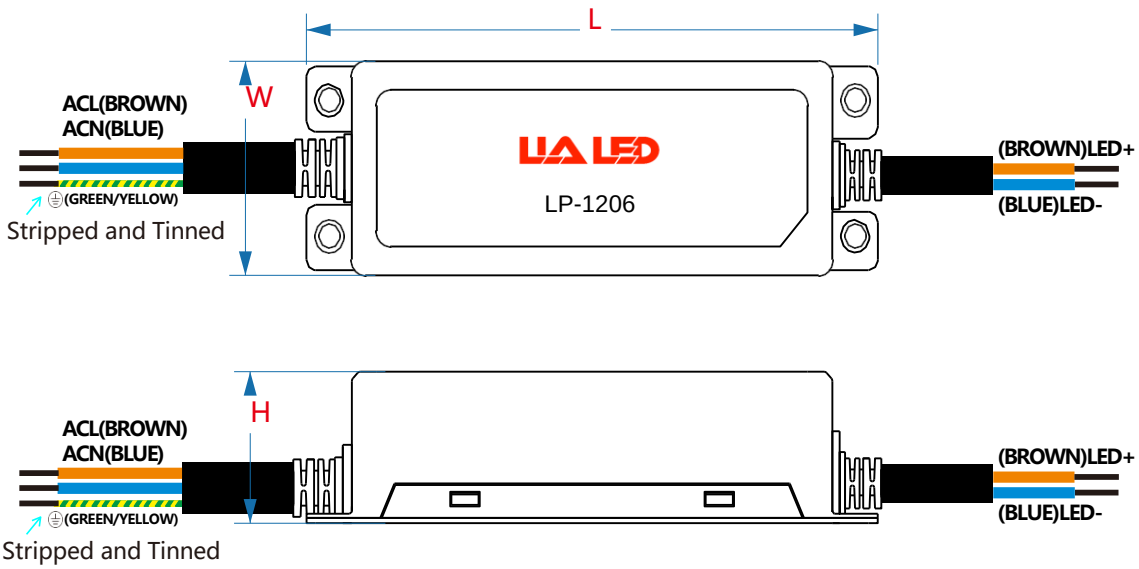
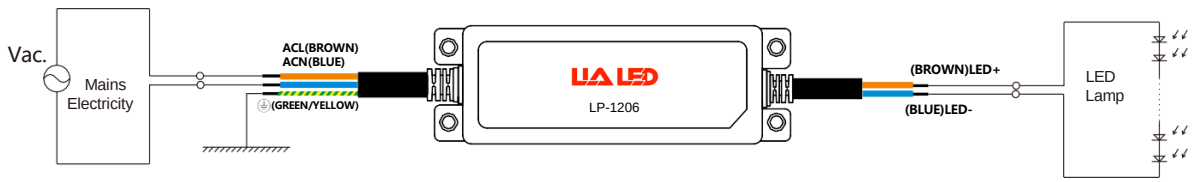
OUTPUT LOAD VS INPUT VOLTAGE



M M F SELV

◆ Product dimension(Unit:mm)

Dimensions	Millimeters	Wire	SPEC	length(mm)
Length	143 mm	AC Input	3*0.75mm2 CCC+VDE	180mm+/-10mm
Width	49 mm			
Height	33 mm	DC Output	2*0.75mm2 CCC+VDE	180mm+/-10mm



◆ Wire diagram