

◆ Features

- ▲ Input Voltage Range: 180-264Vac
- ▲ Aluminum Metal Case With IP67; Suitable For Outdoor Applications
- ▲ Protection Functions: SCP/OCP/OTP
- ▲ Surge Protection With 2KV/4KV
- ▲ Lifetime > 20,000 Hours and 2 years Warranty

◆ Applications

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



◆ Model CE IP67 M M F SELV

MODEL	OUTPUT CURRENT	OUTPUT VOLTAGE	OUTPUT POWER	EFFICIENCY
LNS-12E60V	0-5.0A	12Vdc	60W	87%
LNS-24E60V	0-2.5A	24Vdc	60W	88%

◆ Label

HYRITE[®]

LNS-12E60V

LED Power Supply

OUTPUT

LED+ ● (BROWN)

LED- ● (BLUE)

INPUT

- ACL (BROWN)
- ACN (BLUE)
- ⊕ (GREEN / YELLOW)

Hyrite Lighting Co.
www.hyrite.com

- Vin : 200-240V~ 50/60Hz
- Iin : 0.65A max
- PF: 0.6
- OUTPUT: 12V $\overline{=}$ 5.0A
- POWER: 60W
- Ta: 40°C Tc: 90°C

Suitable for use in Dry, Damp and Wet Locations

M M IP67

SELV CE

LNS-12E60V

A01-A
Made In China

HYRITE[®]

LNS-24E60V

LED Power Supply

OUTPUT

LED+ ● (BROWN)

LED- ● (BLUE)

INPUT

- ACL (BROWN)
- ACN (BLUE)
- ⊕ (GREEN / YELLOW)

Hyrite Lighting Co.
www.hyrite.com

- Vin : 200-240V~ 50/60Hz
- Iin : 0.65A max
- PF: 0.6
- OUTPUT: 24V $\overline{=}$ 2.5A
- POWER: 60W
- Ta: 40°C Tc: 90°C

Suitable for use in Dry, Damp and Wet Locations

M M IP67

SELV CE

LNS-24E60V

A01-A
Made In China

Specification

	PARAMETER		MIN.	TYP.	MAX.	NOTE
	INPUT	INPUT VOLTAGE RANGE		180Vac		264Vac
INPUT FREQUENCY RANGE		47Hz		63Hz		
INPUT CURRENT				0.65A		
EFFICIENCY		87%	88%	89%	12V:230Vac Full Load	
		88%	89%	90%	24V:230Vac Full Load	
LEAKAGE CURRENT				0.75mA	240Vac/50Hz	
INRUSH CURRENT				60A	220Vac,25°C Cold Start	
	PARAMETER		MIN.	TYP.	MAX.	NOTE
	VOLTAGE TOLERANCE		-5%		+5%	
OUTPUT	RIPPLE & NOISE	12V			150mV	Ripple & Noise are measured at 20MHz of band width by using 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor
		24V			300mV	
	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
NO LOAD POWER CONSUMPTION				1W	220Vac/Full Load	
	PARAMETER		MIN.	TYP.	MAX.	NOTE
	WORKING TEMPERATURE		-25°C		+65°C	Refer to "OUTPUT LOAD VS TEMPERATURE"
TEMP. & STORAGE	MAX CASE TEMPERATURE				+90°C	
	STORAGE TEMPERATURE		-30°C		+80°C	
	WORKING HUMIDITY		20% RH		90% RH	Non-Condensing
	STORAGE HUMIDITY		10% RH		90% RH	
	TEMPERATURE COEFFICIENT		-0.03%/°C		+0.03%/°C	
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:3KVac; I/P-FG:1.5KVac;O/P-FG:0.5KVac			
	ISOLATION RESISTANCE		I/P-O/P:100M Ohm/500Vdc/25°C/70%RH			
OTHERS	MTBF		≥658Khrs. MIL-HDBK-217F(25°C)			
	DIMENSION & WEIGHT		Net Weight:0.25Kg L*W*H(mm):126*41*29(mm)			
	PACKING DIMENSION & WEIGHT		Gross Weight:8.5 Kg/ Box Quantity:30 Pcs/Box L*W*H(mm): 375*208*231 (mm)			
NOTES	<p>1. In order to extend the service life, it is recommended to leave 20% more allowance when loading.</p> <p>2. Derating may be needed under low input voltage ,please refer to "OUTPUT LOAD VS INPUT VOLTAGE;"</p> <p>3. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.</p> <p>4. It is important to have enough ventilation of a power supply for longer life span and higher reliability.</p> <p>5. Do not install the power supply in a place that is completely sealed or close to flammable or explosive objects.</p> <p>6. Choose wires with correct AWG or copper area for electrical connection according to the rated current.</p>					

◆ Safety Standards

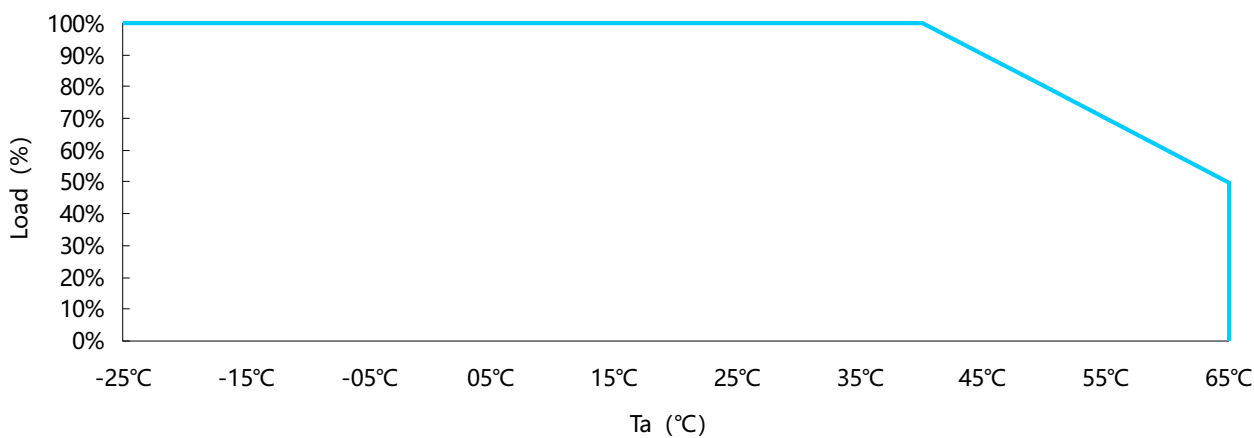
SAFETY CERTIFICATION	STANDARDS
CCC	GB 4943-1
CE	EN 62368-1

◆ EMC

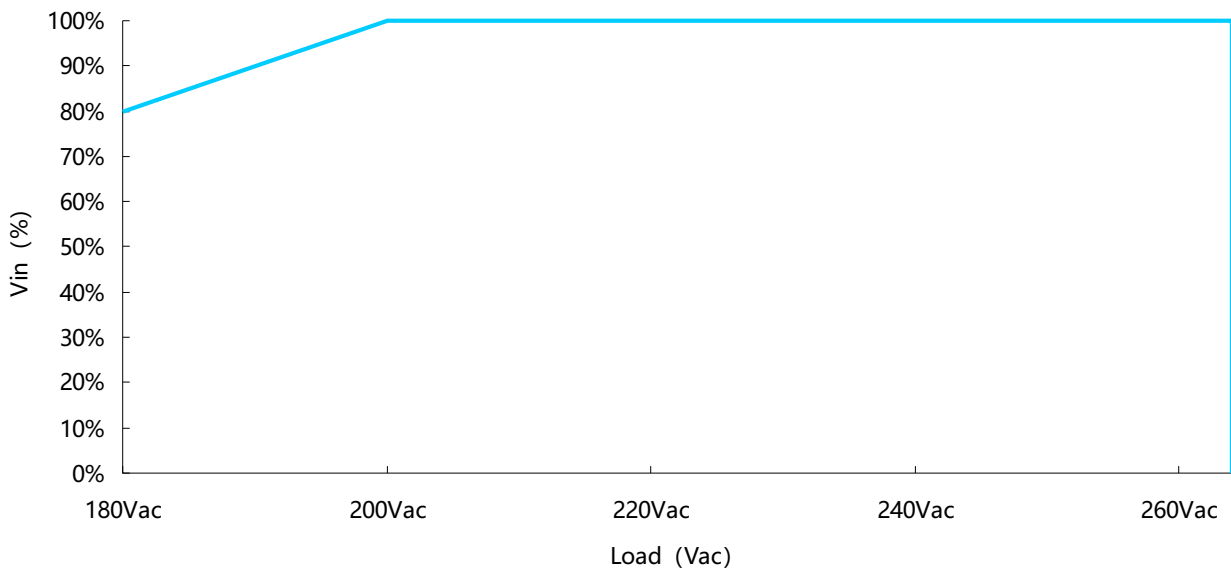
EMC	STANDARDS & NOTE
CONDUCTION	EN 55032; GB/T 9254
RADIATION	EN 55032; GB/T 9254
VOLTAGE FLUCTUATIONS & FLICKER	EN 61000-3-3
SURGE IMMUNITY	EN 61000-4-5; GB 17625.5 Surge Immunity Test: Line-Line: 2KV; Line-Earth:4KV

◆ Characteristic Performance Curve

■ OUTPUT LOAD VS TEMPERATURE

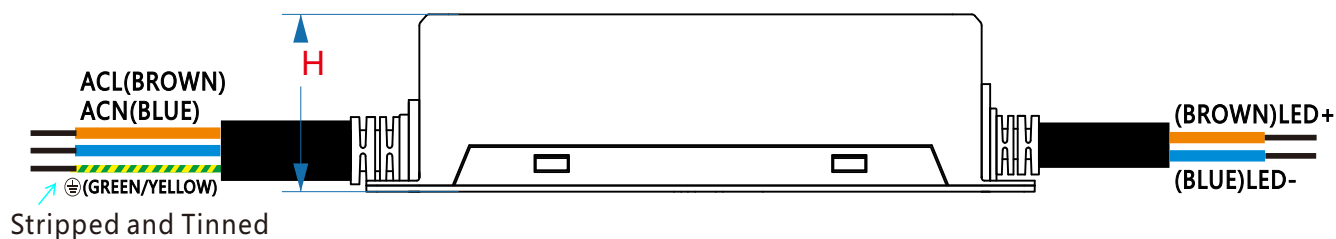
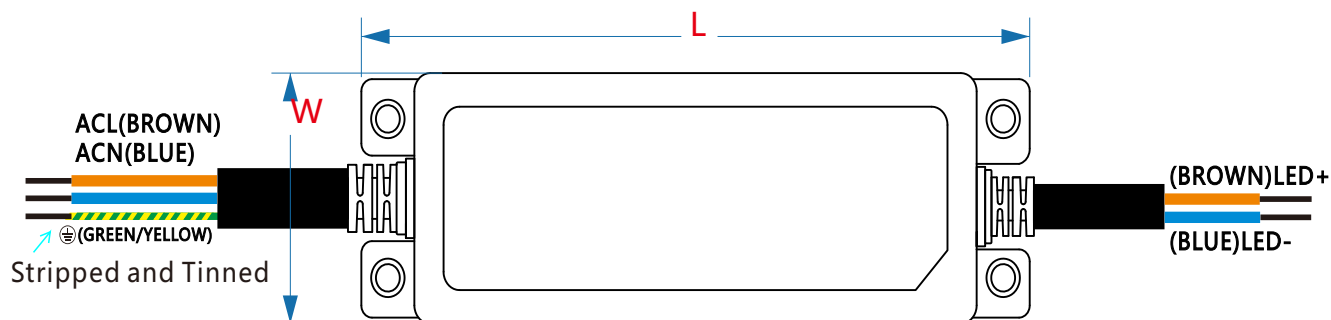


■ OUTPUT LOAD VS INPUT VOLTAGE



◆ Product dimension(Unit:mm)

Dimensions	Millimeters	Wire	SPEC	length(mm)
Length	126mm	AC Input	3*0.75mm ² CCC+VDE	180mm+/-10mm
Width	41mm	12VDC Output	2*0.75mm ² CCC+VDE	180mm+/-10mm
Height	29mm	24VDC Output	2*0.75mm ² CCC+VDE	180mm+/-10mm



◆ Wire diagram

