

**Dimmable LED Constant Voltage Power Supply - 45W Series**
**Features**


- Output constant voltage
- Universal AC input: 100-130VAC
- Power Factor: up to 0.95
- High efficiency: up to 85%
- Protection:short circuit/over loading/over current/over temperature
- Full protection plastic housing
- Easy installation
- Cooling by free air convection
- Compatible with Forward & Reverse phase, Triac, ELV Dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications and others
- Compliance to worldwide safety regulations for lighting

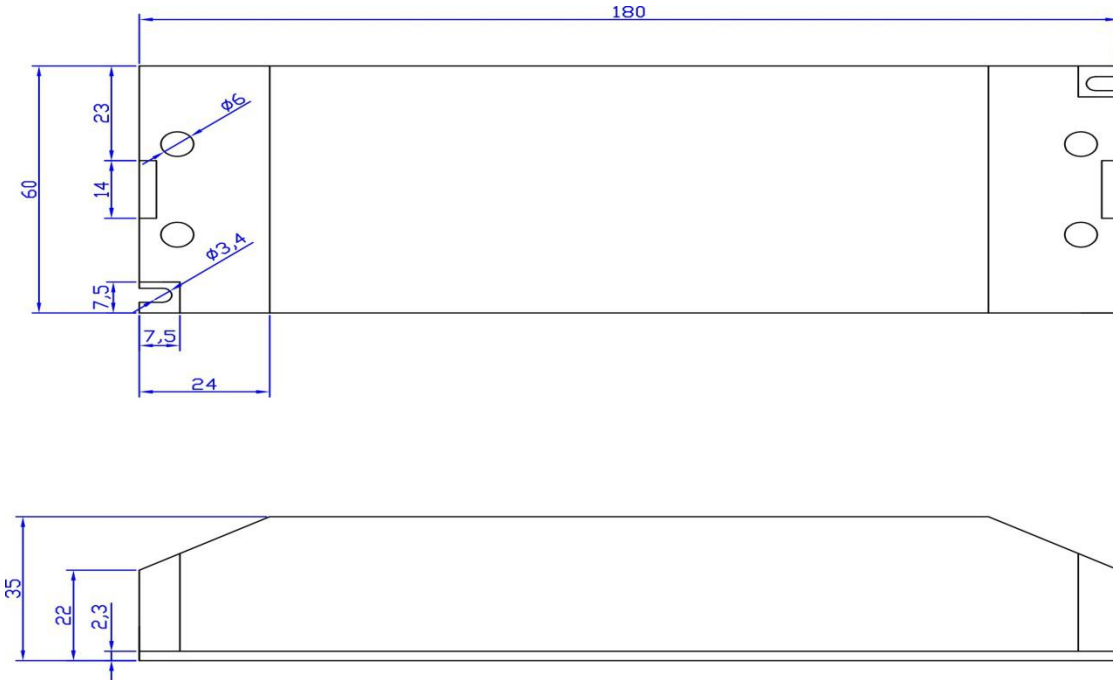

**Specification**

Part Number		PS-12LPS45-DIM	PS-24LPS45-DIM	PS-36LPS45-DIM	PS-48LPS45-DIM
Certificates		ETL, CETL, FCC	ETL, CETL, FCC	ETL, CETL, FCC	ETL, FCC
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	3.75A	1.87A	1.25A	0.93A
	Rated power	45W			
Input	Voltage Range	100~130VAC			
	Frequency Range	47~63HZ			
	Power Factor (Typ.)	PF≥0.95			
	Efficiency (Typ.)	83%	84%	85%	85%
	AC Current (Typ.)	0.61A	0.6A	0.58A	0.56A
	Leakage current	< 0.70mA/110VAC			
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed			
	Over Current	≤1.4*I out			
	Over Loading	≤120%			
	Over temperature	100℃±10℃ (The output voltage will turn off when the temperature is higher than100℃±10℃, after the temperature drop off ,it will recovery) automatic			
Environment	Working TEMP.	-40~+60℃			
	Working Humidity	20~90%RH, non-condensing			
	Storage TEMP. Humidity	-40~+80℃, 10~95%RH			
	TEMP .coefficient	±0.03%/℃ (0~50℃)			
	Vibration	10~500Hz, 2G 10min./1 cycle,period for 60min. each along X,Y,Z axes			
Safety& EMC	Safety standards	UL8750+UL1310			
	Withstand voltage	I/P-O/P:1500KVAC			
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH			
	EMC EMISSION	FCC Part 15 B			
Others	Net. Weight	0.5Kg			
	Size	180*60*35mm (L*W*H)			
	packing	350*195*180mm 20PCS/CTN			

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Notes	<ol style="list-style-type: none"> <li>1. All parameters if NOT specially mentioned are measured at 110VAC input , rated load and 25°C of ambient temperature.</li> <li>2. To extend the driver's using life ,please reduce the loading at lower input voltage.</li> <li>3. Loading should be 60-100%.</li> </ol>
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### ■45W Phase/Triac Dimmable driver Mechanical Specification



※ Input (L) and (N) with wires to be connected AC.

※ Output LED SEC: (LED+) (LED-)

### ■Dimming Operation

※Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.

※Forward phase and Reverse phase, ELV, Triac Dimmers

### ■Warning

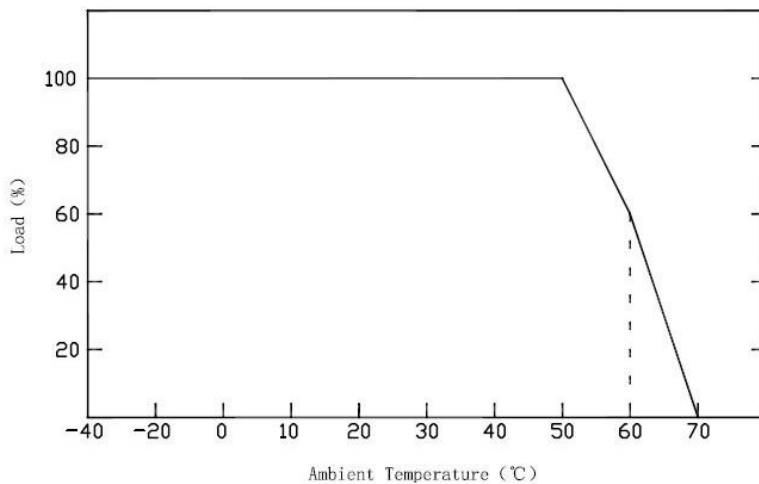
※Prevent to reverse polarity;

※Risk of Electric Shock. When used outdoors, install only on a circuit protected by a Class A GFCI;

※Risk of Fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician;

※Risk of Electric Shock. Mount the unit at a height greater than 1 foot from the ground surface.

### ■Derating Curve



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※To extend their life, please refer to the Derating Curve and derate according to the temperature.

### ■ Connecting Diagram

