



Outdoor LED Power Supply, 600 W, 110-277 VAC to 24 VDC, IP65 Non-Dimmable Constant Voltage

- Constant-voltage 24 VDC output rated 600 W and 25 A
- Built-in active PFC, 0.95 power factor at 277 VAC
- Efficiency up to 93.45% at 277 VAC full load
- IP65 aluminum enclosure for dry, damp and wet locations
- Auto-recovering short circuit, overload and thermal protection
- UL 8750 listed under file E495946, FCC and RoHS compliant

OVERVIEW

The P-S600-24-UL is a 600 W constant-voltage outdoor LED driver with a 24 VDC output, intended for sign, facade, landscape and cove lighting loads installed in dry, damp or wet locations. The fully potted aluminum case is IP65 rated and cooled by free air convection, with no external fan.

Input accepts 110-277 VAC at 50/60 Hz with built-in active PFC, reaching 0.95 power factor at 277 VAC and efficiency up to 93.45% at full load. Rated output current is 25 A. Short circuit, overload and over-temperature protections all recover automatically once the fault is cleared. Operating range is -40 to +60 C at 20-95% RH non-condensing, per the published derating curve. Input leads are 3 × 18 AWG SJOW and output leads are 2 × 14 AWG SJOW.

UL listed to UL 8750 under file E495946, compliant with FCC Part 15 Subpart B and RoHS. Five-year warranty.

SPECIFICATIONS

ELECTRICAL

Operating Voltage	110-277 V
Wattage	600 W
Current Draw	25 A
Dimmer Type	Non-dimmable
Power Supply Input	110-277VAC
Power Supply Output	24V
Input Connection Type	SJOW leads, 3 × 18 AWG input
Wire Gauge *	18 input, 14 output

MECHANICAL

Product Dimensions	284*109*48.5mm
Material	Aluminum case
Weight	4.37 lb

ENVIRONMENTAL

IP Rating	IP65
Environmental Rating	Waterproof
Ambient Operating Temperature	-40–60 °C -40–140 °F
Operating Humidity	20-95% RH non-condensing

ORDERING

Warranty	5 y
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DIMENSIONS & DIAGRAMS

	Packing	pcs /CTN
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature. 2. To extend the driver's using life , please reduce the loading at lower input voltage .	

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A/0

DIMENSION

CERTIFICATIONS & COMPLIANCE



UL Listed
E495946



FCC



RoHS Compliant

APPLICATIONS

Exterior channel letter and sign lighting

Building facade and cove installations

Landscape and pathway lighting

Parking structure and canopy fixtures

Outdoor low-voltage LED strip runs

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
operating_voltage	110–277 V	pdf	high
wattage	600 W	pdf	high
current_draw	25 A	pdf	high
dimmer_type	Non-dimmable	pdf	high
ps_input	110-277VAC	db	high
ps_output	24V	db	high
input_connection_type	SJOW leads, 3 × 18 AWG input	pdf	high
wire_gauge	18 input, 14 output	pdf	low
product_dimensions	284*109*48.5mm	pdf	high
material	Aluminum case	pdf	high
weight	4.37 lb	pdf	high
ip_rating	IP65	db	high
environmental_rating	Waterproof	db	high
ambient_temp_c	-40–60 °C	pdf	high

slug	value	source	confidence
operating_humidity	20-95% RH non-condensing	pdf	high
ul_file_number	E495946	db	high
warranty_years	5 y	both	high

* Value inferred from source data; verify before specification.
Specifications subject to change without notice.

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