DayTech LED
5250 Satellite Drive, Unit 7, Mississauga ON L4W 5G5
Tel 905-617-0298
www.daytechled.com

LED DRIVER · PRODUCT SPECIFICATION

0–10V 4-in-1 Dimmable Constant Voltage LED Driver

PART NO. **PS-96W-24V-4in1**

24V DC | CLASS 2 | cUL LISTED | TYPE HL



c UL us LISTED E495946 · Class 2 TYPE HL · FC · Product RoHS

QUICK SPECS

INPUT VOLTAGE	OUTPUT VOLTAGE	POWER OPTIONS
100–277 VAC	24 VDC	30·60·96 W

DIMMING	POWER FACTOR	DIMMING RANGE
4-in-1	0.98	0–100 %

PRODUCT OVERVIEW

A 24V constant voltage LED driver with **4-in-1 dimming**: one unit works with 0–10V, 1–10V, potentiometer and 10V PWM controls for smooth, flicker-free dimming from 0–100%. Universal 100–277VAC input and a full-protection metal case with integrated wiring compartment, suitable for dry, damp and wet locations. **Available in 30W, 60W and 96W.**

FEATURES

- 4-in-1 dimming: 0–10V / 1–10V / potentiometer / 10V PWM
- Universal 100–277VAC input · power factor up to 0.98
- Efficiency up to 86% · load range 10–100%
- Flicker-free PWM output; colour unaffected by dimming
- Short circuit, overload and over-temperature protection
- UL / cUL listed, Class 2, Type HL · FCC Part 15B
- Full-protection metal case for dry, damp and wet locations

ORDERING INFORMATION

Select one model

	PART NUMBER	OUTPUT	MAX POWER	CURRENT	DESCRIPTION
☐	**PS-30W-24V-4in1**	24V DC	**30W**	1.25A	30W 24V 4-in-1 dimmable driver, 0–10V / 1–10V / potentiometer / 10V PWM, 100–277VAC input.
☐	**PS-60W-24V-4in1**	24V DC	**60W**	2.5A	60W 24V 4-in-1 dimmable driver, 0–10V / 1–10V / potentiometer / 10V PWM, 100–277VAC input.
☑	**PS-96W-24V-4in1**	24V DC	**96W**	4A	96W 24V 4-in-1 dimmable driver, 0–10V / 1–10V / potentiometer / 10V PWM, 100–277VAC input.

QTY _____ PO # _____ PROJECT _____

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LED DRIVER · TECHNICAL DATA

Technical Specifications

PART NO. **PS-96W-24V-4in1**

OUTPUT

DC Voltage	**24V**
Rated Power / Current	**30W 1.25A · 60W 2.5A · 96W 4A**
Voltage Tolerance	**±0.5V**
Line / Load Regulation	**±0.5% / ±1%**

INPUT

Voltage Range	**100–277VAC, 47–63Hz**
Power Factor (typ.)	**0.98 @ 120VAC · 0.95 @ 277VAC**
THD (typ.)	**<20%**
Efficiency (typ.)	**83% @ 120VAC · 86% @ 277VAC**
Leakage Current	**<0.50mA**

DIMMING

Dimming Type	**0–10V / 1–10V / Pot. / 10V PWM**
Dimming Range	**0–100%**
Load Range	**10–100%**

PROTECTION

Short Circuit	**Shut down, re-power to recover**
Overload	**≤120%, auto-recovery**
Over Temperature	**100 °C ±10 °C, auto-recovery**

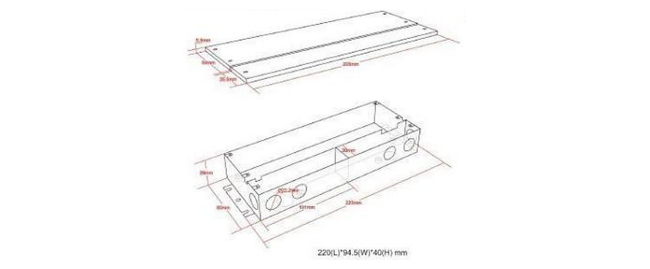
ENVIRONMENT

Working Temp.	**-40 °C to +60 °C**
Working Humidity	**20–90% RH, non-condensing**
Storage Temp.	**-40 °C to +80 °C**

SAFETY & MECHANICAL

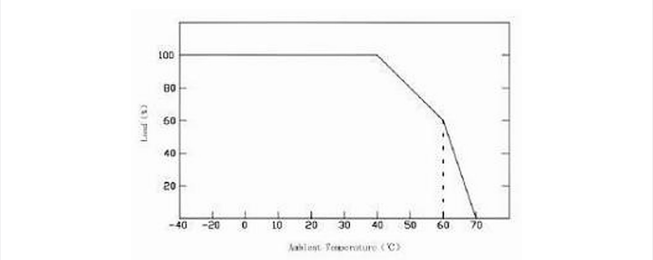
Safety Standards	**UL 8750 · Class 2 · Type HL**
EMC Emission	**FCC Part 15B**
Withstand Voltage	**I/P-O/P 1.88kVAC**
Size (96W)	**220 × 94.5 × 40 mm**
Weight (96W)	**1.37 kg**

MECHANICAL



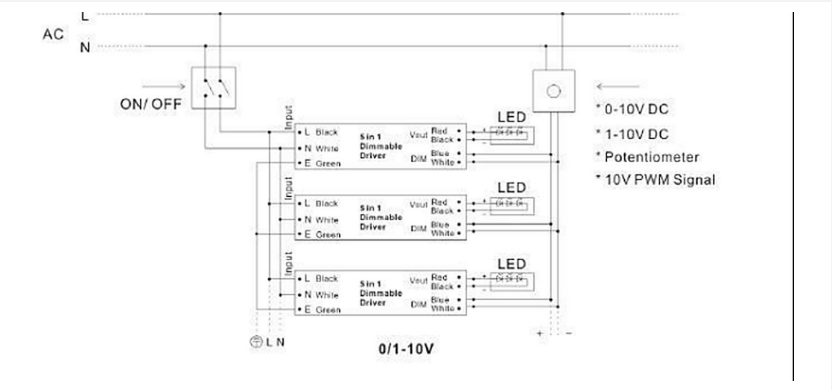
220 (L) × 94.5 (W) × 40 (H) mm · 96W shown

DERATING CURVE



Load (%) vs. ambient temperature (°C)

WIRING · 0–10V / 1–10V DIMMING



WIRE CONNECTIONS

AC L / N	**Black / White**
Ground	**Green**
LED +	**Red**
LED –	**Black**
DIM +	**Purple**
DIM –	**Grey**

Install by a qualified person with adequate ventilation. Check wiring before power-up. Parameters measured at 120VAC, rated load and 25 °C.