DayTech LED

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

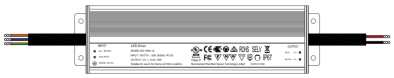
LED DRIVERS · DIMMABLE · HARDWIRED

Phase-Dimmable Hardwired Drivers · 150–320W

Waterproof 24V constant voltage drivers for TRIAC / ELV / MLV wall dimmers. Indoor or outdoor.

NON CLASS 2

Any driver over 96W is NOT a Class 2 power supply.
ESA treats their 24V output as a **Class 1 power circuit,** wired to the same Code standard as line-voltage wiring. All installations must be completed by a Licensed Electrical Contractor within **ESA (Electrical Safety Authority)** guidance and the Ontario Electrical Safety Code.



150W · 213 × 58 × 36 mm



240–320W · 258 × 68 × 41 mm

FEATURES

- 24V constant voltage output, 150W / 240W / 320W
- TRIAC / phase-cut dimming from standard wall dimmers
- Compatible with ELV (trailing-edge) and MLV (leading-edge) dimmers
- Wide 100–277VAC input, active PFC (PF ≥ 0.98 @ 115VAC)
- Fan-free aluminum housing with functional ground, IP67
- Short-circuit / over-current / over-voltage / over-temp. protection
- UL listed · > 50,000 hr lifetime · 5-year warranty

APPLICATIONS

- Dimmable LED strip and tape light
- Cove, wall wash and linear lighting
- Signs and display lighting
- Outdoor, landscape and in-ground
- Long runs and high-load circuits

DIMMABLE MODELS · SELECT TO ORDER

	PART NUMBER	DESCRIPTION	OUTPUT	CURRENT	POWER	AC INPUT*	QTY
☐	**PS-150W-24V-EMD**	Waterproof CV driver, TRIAC dim	24V	6.25 A	150W	1.6 A	
☐	**PS-240W-24V-EMD**	Waterproof CV driver, TRIAC dim	24V	10.0 A	240W	3.3 A	
☐	**PS-320W-24V-EMD**	Waterproof CV driver, TRIAC dim	24V	13.3 A	320W	3.3 A	

** AC input current @ 115VAC, full load. Output current = rated power ÷ 24V. Full electrical data and wiring on page 2.*

ORDER DETAILS

PO #

PROJECT

Tick models above and enter quantities.

HOW ESA TREATS NON-CLASS 2 (OVER 96W) DRIVERS

- **Not power-limited.** A Class 2 supply is capped at 100 VA. Over that limit, the 24V output is a **Class 1 extra-low-voltage power circuit** (OESC Section 16).
- **Wired like power wiring.** Use Code-approved wiring methods and conductors sized for the load, make splices in approved boxes, and provide overcurrent protection.
- **Keep circuits separate.** Do not run Class 1 output wiring with Class 2 conductors.
- **Permit + LEC.** Installation requires an ESA Notification of Work and inspection; work for hire must be done by a Licensed Electrical Contractor.

Specifications subject to change without notice.

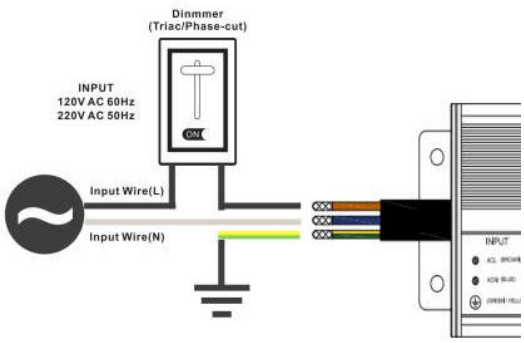
LED DRIVERS · DIMMABLE · HARDWIRED

Specifications, Wiring & Dimensions

COMMON ELECTRICAL DATA · ALL DIMMABLE MODELS

INPUT VOLTAGE	100–277VAC	FREQUENCY	47–63Hz
POWER FACTOR	≥ 0.98 @ 115VAC · ≥ 0.9 @ 277VAC	DIMMING	TRIAC / phase-cut (ELV & MLV)
EFFICIENCY	≥ 90% @ 115VAC · ≥ 92% @ 230VAC	PROTECTION	Short circuit, over-current, OVP, OTP
THD	< 20% @ ≥ 50% load (115/230VAC)	RATING	IP67 · Class 1 (not Class 2)
STANDBY POWER	< 1.0W	WORKING TEMP.	Tcase -40 to +50 °C · max. case +90 °C
INRUSH CURRENT	Cold start 75A @ 230VAC	HUMIDITY	20–95% RH, non-condensing
RIPPLE & NOISE	250 mVp-p max.	SAFETY	UL 8750 · IEC/EN 61347
VOLTAGE ACCURACY	± 2.0% · line / load reg. ± 0.5%	LIFETIME / WARRANTY	> 50,000 hr · 5 years

DIMMER WIRING



WIRE COLOURS

INPUT

Brown	AC Line (L) · from dimmer
Blue	AC Neutral (N)
Green / Yellow	Ground

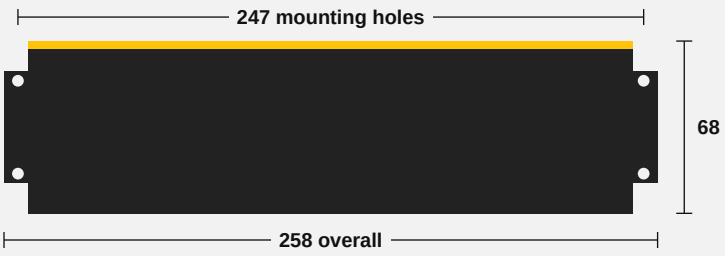
OUTPUT

Red	V+ 24V DC to LED tape
Black	V– to LED tape

The dimmer goes on the **line (brown) input,** ahead of the driver. Use a wall dimmer rated for LED or ELV / MLV loads and sized for the total driver input load. Do not dim on the 24V output side.

DIMENSIONS · 240–320W MODELS

TOP VIEW



END VIEW



Dimensions in mm. 150W model: 213 × 58 × 36 mm. Mounting-hole spacing 53.5 mm across width on 240–320W models.

Specifications subject to change without notice.