NL-96W-24T

TRIAC DIMMABLE | CONSTANT-VOLTAGE DRIVER

PROSERIES
LED POWER SUPPLY

PROSERIES / 24VDC IP67 LED POWER SUPPLY



NL-96W-24T | 24VDC CONSTANT VOLTAGE | TRIAC DIMMING **IP67**

96 W	24 VDC	IP67
RATED OUTPUT POWER	DC OUTPUT VOLTAGE	ENCLOSURE PROTECTION

PRODUCT OVERVIEW

Neotek NL-96W-24T is a 96-watt constant-voltage LED driver for compatible 24VDC architectural linear lighting systems. The enclosed aluminum form factor provides IP67 protection for appropriately installed wet-location projects. The driver supports AC phase-cut (TRIAC) dimming with compatible leading-edge or trailing-edge controls.

PRODUCT & APPLICATION HIGHLIGHTS

- [ ] 100-277 VAC source input range
- [ ] 24VDC constant-voltage output
- [ ] IP67 enclosed driver
- [ ] Source safety listing; verify scope
- [ ] Phase-cut dimmable (TRIAC)
- [ ] Metal housing / IP67 enclosure

NL-96W-24T

ELECTRICAL | SAFETY & PROTECTION

PROSERIES
LED POWER SUPPLY

OUTPUT / INPUT ELECTRICAL SPECIFICATIONS

DC OUTPUT

Rated output power	96 W	**Nominal DC current**	4.00 A (calculated)
Output voltage	24 VDC	**Source-listed DC current**	1.10 A*
Voltage accuracy	+/- 5%	**Output type**	Constant voltage
Voltage regulation	+/- 5%	**Ingress protection**	IP67
Load regulation	+/- 1%	**Safety basis**	UL 8750 + UL 1310

AC INPUT & POWER QUALITY

Input voltage	100-277 VAC*	**Full-load efficiency**	>79% to >81%
Input frequency	47-63 Hz	**AC current @ 100V**	1.10* A typical
Power factor / 110V	PF >= 0.99	**AC current @ 277V**	0.43 A typical
Power factor / 277V	PF >= 0.98	**Inrush current**	7 A, 50%, 420 us

PROTECTION / COMPLIANCE

Short circuit	Hiccup mode; auto recovery after removal
Overload	Approx. 120% shutdown; restart to recover
Over temperature	100 C +/- 10 C shutdown; auto cooling recovery
Source markings	cULus; Class 2 / Class P (verify)

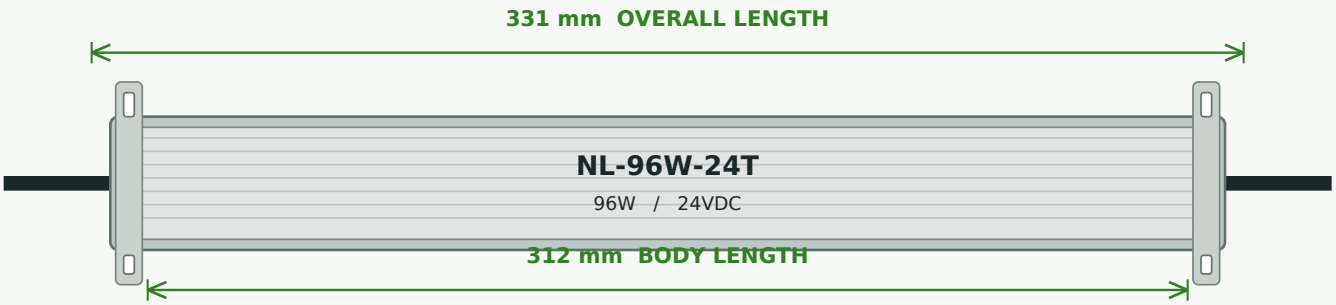
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MECHANICAL | INSTALLATION ENGINEERING

PROSERIES

LED POWER SUPPLY

ENCLOSURE DIMENSIONS / MOUNTING



END VIEW



32 mm W x 20 mm H

MOUNTING CENTERS: 321 mm

MECHANICAL DATA

Overall length incl. tabs	331 mm / 13.03 in
Body length	312 mm / 12.28 in
Mount center spacing	321 mm / 12.64 in
Cross-section	32 mm wide x 20 mm high
Source-listed weight	0.40 kg
Housing / environment	IP67 enclosed linear aluminum housing

DERATING REFERENCE

Operate within the rated temperature and load limits. Refer to the approved model-specific derating data before sizing at elevated ambient temperatures.

NL-96W-24T

DIMMING | INSTALLATION & SUBMITTAL

PROSERIES

LED POWER SUPPLY

DIMMING CONTROL / CONNECTION CONCEPT

AC PHASE-CUT INPUT

AC TRIAC DIMMER	AC	NL-96W-24T	DC	24 VDC LED LOAD

Compatible leading-edge or trailing-edge AC dimmers are identified in the legacy information; trailing-edge controls are preferred. Verify dimmer compatibility, minimum/maximum loading and line-side wiring with Neotek before commissioning.

ENVIRONMENT & INSTALLATION

Operating ambient
-40 C to +60 C

Operating humidity
20-90% RH, non-condensing

Storage temperature
-40 C to +80 C

Storage humidity
10-95% RH

EMC reference
FCC Part 15B

Installation
Qualified electrical professional

ORDERING / PROJECT DETAILS

NEOTEK MODEL

24 VDC | TRIAC | IP67

NL-96W-24T

PROJECT / LOCATION _____

QUANTITY _____ DRIVER LOAD _____ W CONTROL _____

ENGINEERING NOTES / SOURCE REVIEW

The source describes 100-227 VAC in its heading and 100-277 VAC in its input table. The published DC current (1.10 A) does not agree with its 96 W / 24 V rating; 4.00 A above is nominal arithmetic only. Confirm input range, output current, wiring and listings for the shipped unit.