FlowLite

Specification Sheet
Constant-Voltage LED Driver

Universal 5-in-1 Dimmable Driver, 30 W FL-DU30

A compact 30 W, 24V DC constant-voltage driver with a Class 2 output, dimmable by TRIAC / phase, 0–10V, 1–10V, potentiometer, 10V PWM, on a 100–277VAC input, for dry, damp and wet locations.

AT A GLANCE

Type	Constant-voltage driver
Input	100–277VAC, 47–63 Hz
Output	24V DC, 30 W
Total power	30 W
Dimming	5-in-1: TRIAC / phase, 0–10V, 1–10V, potentiometer, 10V PWM
Minimum load	20%
Class 2	Yes
Location	Dry, damp and wet locations
Listing	UL Listed
Warranty	5 years



ORDERING GUIDE

MODEL	VOLTAGE
FL-DU30-	☐
	24 24V DC

Example: **FL-DU30-24** (30 W, 24V DC)

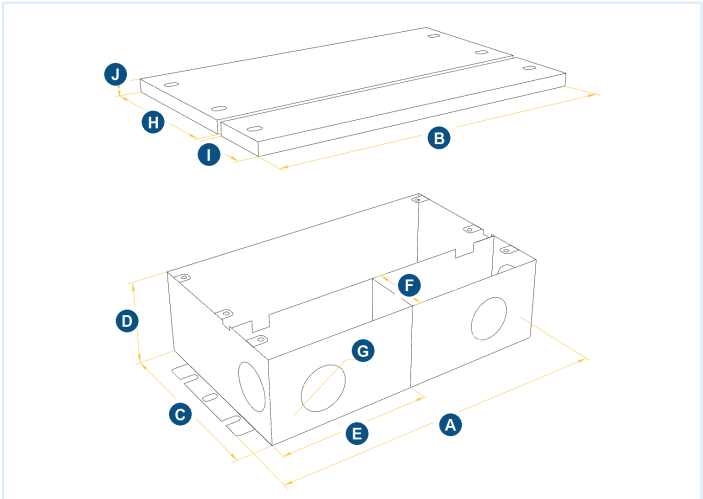
FEATURES

- 30 W, 24V DC constant-voltage Class 2 output
- Five dimming methods: TRIAC / phase, 0–10V, 1–10V, potentiometer and 10V PWM
- Universal 100–277VAC input, 47–63 Hz
- Power factor 0.99 at 120VAC (0.95 at 277VAC); THD under 20%
- Short-circuit, overload and over-temperature protection
- Rated -40°F to +140°F; dry, damp and wet locations

MODELS & PERFORMANCE

MODEL	RATED POWER	RATED CURRENT	INPUT VOLTAGE	AC CURRENT	EFFICIENCY 120V / 277V	POWER FACTOR 120V / 277V	MASTER PACK
FL-DU30-24	30 W	1.25 A	100–277VAC	0.5 A @ 100VAC	≥79% / ≥80%	0.99 / 0.95	20 pcs

DIMENSIONS



DIM.	INCHES
A	6.50
B	5.94
C	3.54
D	1.54
E	2.89
F	1.18
G	Ø0.87
H	2.32
I	1.40
J	0.22

Source drawing. Overall size from the source: 5.95 × 3.54 × 1.53 in (L × W × H).

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TECHNICAL SPECIFICATIONS

OUTPUT

DC voltage	24V
Voltage tolerance	±0.5V
Voltage regulation	±0.5%
Load regulation	±2%

INPUT

Voltage range	100–277VAC
Frequency range	47–63 Hz
THD	<20% at 120VAC and 277VAC
AC current	0.5 A @ 100VAC
Inrush current	7 A, 50%, 420 μs @ 120VAC; 12 A, 50%, 480 μs @ 277VAC
Leakage current	<0.5 mA

DIMMING

Dimming methods	TRIAC / phase, 0–10V, 1–10V, potentiometer, 10V PWM

PROTECTION

Short circuit	Output shuts down; re-power to recover after the fault is removed
Overload	≤120%: output shuts down; re-power to recover after the fault is removed
Over-temperature	212°F (100°C): output shuts down, recovers automatically after cooling

ENVIRONMENT

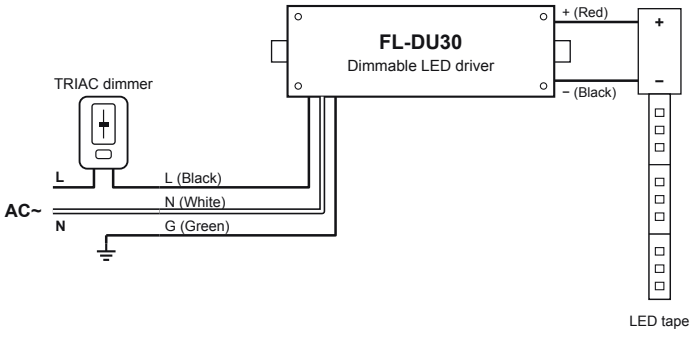
Working temperature	-40°F to +140°F (-40°C to 60°C)
Working humidity	20–90% RH, non-condensing
Storage	-40°F to +176°F (-40°C to 80°C), 10–95% RH
Temperature coefficient	±0.03% / °C (0–50°C)
Vibration	10–500 Hz, 5G, 12 min per cycle, 72 min each along X, Y and Z axes

SAFETY & EMC

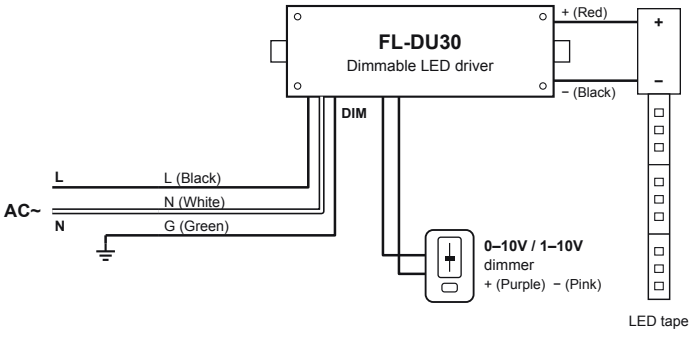
Safety standards	UL8750, CAN/CSA-C22.2 No. 250.13
Withstand voltage	I/P–O/P, I/P–FG, O/P–FG: 1.8 kVAC
Isolation resistance	I/P–O/P: 100 MΩ / 500VDC / 25°C / 70% RH
EMC emission	FCC 47 CFR Part 15, Subpart B

WIRING DIAGRAMS

1 TRIAC / phase dimming (primary)



2 0–10V / 1–10V / 10V PWM / potentiometer (secondary)



- For reference only; follow the dimmer manufacturer's wiring diagram.
- Do not short the dimming control wires (Purple +, Pink −) to the LED output wires.