FlowLite

Specification Sheet
Constant-Voltage LED Driver

Class 2 Multi-Circuit 5-in-1 Driver FL-DMU

A 24V DC constant-voltage driver with two, three or four Class 2 output circuits of 96 W each (192, 288 or 384 W total), 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	Multi-circuit constant-voltage driver
Input	100–277VAC, 47–63 Hz
Output	24V DC, 2, 3 or 4 × 96 W circuits
Total power	192 W, 288 W or 384 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-DMU192 192 W (2 × 96 W)	**24** 24V DC
FL-DMU288 288 W (3 × 96 W)	
FL-DMU384 384 W (4 × 96 W)	

Example: **FL-DMU288-24** (288 W (3 × 96 W), 24V DC)

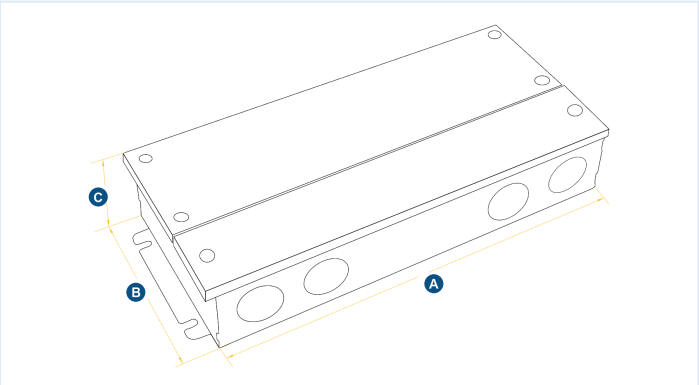
FEATURES

- Two, three or four Class 2 output circuits, 96 W each, in one housing
- 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

MODEL	RATED POWER	OUTPUT CIRCUITS	CURRENT PER CIRCUIT	DIMENSIONS (L × W × H)	MASTER PACK
FL-DMU192-24	192 W	2 × 96 W	4 A	9.80 × 3.97 × 1.65 in	10 pcs
FL-DMU288-24	288 W	3 × 96 W	4 A	10.74 × 3.97 × 1.77 in	10 pcs
FL-DMU384-24	384 W	4 × 96 W	–	11.61 × 5.51 × 1.88 in	5 pcs

DIMENSIONS



DIM.	FL-DMU192	FL-DMU288	FL-DMU384
A	9.80 (249)	10.75 (273)	11.61 (295)
B	3.98 (101)	3.98 (101)	5.51 (140)
C	1.65 (42)	1.77 (45)	1.89 (48)

Inches (mm), from the dimension drawing. A length, B width, C height. Drawing shown: FL-DMU288; all three models share this layout.

TECHNICAL SPECIFICATIONS

OUTPUT

DC voltage	24V
Voltage tolerance	±0.5V
Voltage regulation	±0.5%
Load regulation	±2%
Output circuits	2, 3 or 4 × 96 W, Class 2 (by model)

INPUT

Voltage range	100–277VAC
Frequency range	47–63 Hz
THD	<20% at 120VAC and 277VAC
Efficiency	≥79% at 120VAC, ≥80% at 277VAC
Power factor	0.99 at 120VAC, 0.95 at 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

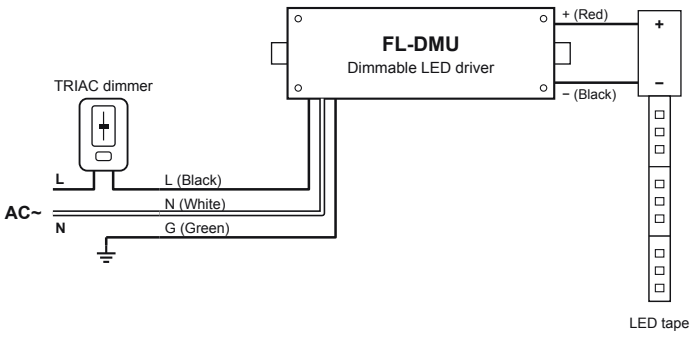
Working temperature	-40°F to +140°F (-40°C to 60°C)
Working humidity	20–90% RH, non-condensing
Storage	-40°F to +176°F (-40°C to 80°C), 10–95% RH
Temperature coefficient	±0.03% / °C (0–50°C)
Vibration	10–500 Hz, 5G, 12 min per cycle, 72 min each along X, Y and Z axes

SAFETY & EMC

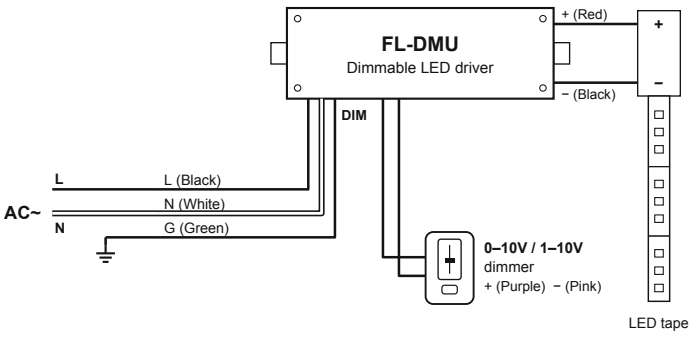
Safety standards	UL8750, CAN/CSA-C22.2 No. 250.13
Withstand voltage	I/P–O/P, I/P–FG, O/P–FG: 1.8 kVAC
Isolation resistance	I/P–O/P: 100 MΩ / 500VDC / 25°C / 70% RH
EMC emission	FCC 47 CFR Part 15, Subpart B

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. Shown with one output.
- Do not short the dimming control wires (Purple +, Pink −) to the LED output wires.