FlowLite

Specification Sheet
Constant-Voltage LED Driver

Phase-Dimmable Junction Box Driver, 120V FL-DPJ

A 24V DC constant-voltage electronic driver for 120VAC circuits, dimmable with ELV, MLV and TRIAC phase dimmers. Five wattages from 60 W to 300 W, in a junction-box housing.

AT A GLANCE

Type	Constant-voltage electronic dimmable driver
Input	120VAC, 50/60 Hz
Output	24V DC, 60 W to 300 W
Dimming	ELV, MLV, TRIAC phase dimmable
Dimming range	0–100%
Class 2	60 W and 96 W
Location	Dry, damp and wet locations (60 W label)
Warranty	3 years



ORDERING GUIDE

MODEL	WATTAGE	VOLTAGE
FL-DPJ-	[ ]	[ ]
	60 60 W	**24** 24V DC
	96 96 W	
	150 150 W	
	200 200 W	
	300 300 W	

Example: **FL-DPJ-96-24** (96 W, 24V DC)

FEATURES

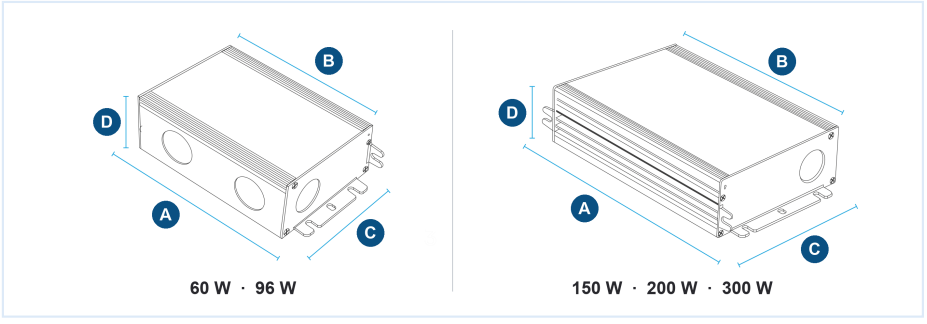
- Phase dimmable with ELV, MLV and TRIAC dimmers, 0–100% dimming range
- 24V DC constant-voltage output, 60 W to 300 W
- 120VAC, 50/60 Hz input
- Efficiency up to 90% at 120VAC; THD under 20% at full load
- Short-circuit and overload protection, hiccup mode with automatic recovery
- Class 2 output on the 60 W and 96 W models
- Suitable for dry, damp and wet locations (60 W label)

MODELS & PERFORMANCE

MODEL	RATED POWER	RATED CURRENT	AC CURRENT (TYP.)	EFFICIENCY @120VAC	POWER FACTOR (TYP.)	CLASS 2	WEIGHT	CARTON
FL-DPJ-60-24	60 W	2.5 A	0.7 A	88%	>0.95	Yes	0.77 lb (0.35 kg)	20 pcs
FL-DPJ-96-24	96 W	4 A	0.9 A	88%	>0.95	Yes	0.77 lb (0.35 kg)	20 pcs
FL-DPJ-150-24	150 W	6.25 A	1.31 A	90%	>0.9		1.82 lb (0.826 kg)	20 pcs
FL-DPJ-200-24	200 W	8.33 A	1.78 A	90%	>0.9		1.82 lb (0.826 kg)	20 pcs
FL-DPJ-300-24	300 W	12.5 A	2.67 A	90%	>0.9		1.82 lb (0.826 kg)	20 pcs

Class 2 is marked on the 60 W and 96 W models only.

DIMENSIONS



WATTAGE	A	B	C	D
60 W	4.97	4.09	3.14	1.60
96 W	4.97	4.09	3.14	1.60
150 W	6.55	5.66	4.07	1.60
200 W	6.55	5.66	4.07	1.60
300 W	6.55	5.66	4.07	1.60

Inches. Left drawing: 60 W and 96 W housing. Right drawing: 150 W, 200 W and 300 W housing.

TECHNICAL SPECIFICATIONS

OUTPUT

DC voltage	24V
Voltage tolerance	±1.5V

INPUT

Voltage	120VAC
Frequency	50/60 Hz
THD	<20% at 100% load
Leakage current	<0.5 mA at 120VAC

PROTECTION

Short circuit	Hiccup mode; recovers automatically after the fault is removed
Overload	Hiccup mode; recovers automatically after the fault is removed

ENVIRONMENT

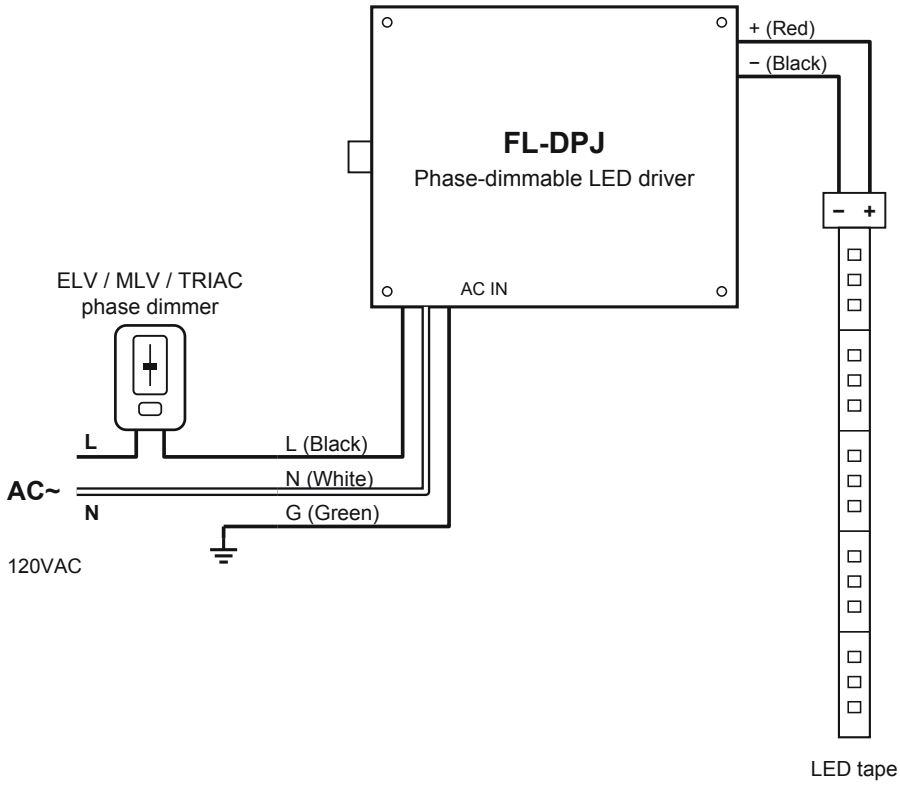
Working temperature	-40°F to +140°F (-40°C to 60°C)
Working humidity	20–95% RH, non-condensing
Storage	-40°F to +194°F (-40°C to 90°C), 10–95% RH
Temperature coefficient	±0.03% / °C (0–50°C)
Vibration	10–500 Hz, 5G, 10 min per cycle, 60 min each along X, Y and Z axes

SAFETY & EMC

Withstand voltage	I/P–O/P: 1.88 kVAC
EMC emission	FCC 47 CFR Part 15, Subpart B; ICES-005 Issue 5; ANSI C63.4a-2017

WIRING DIAGRAMS

1 ELV / MLV / TRIAC phase dimming



LEADS (60 W LABEL)

AC L	Black Line input
AC N	White Neutral input
Ground	Green Ground
LED+	Red LED output +
LED−	Black LED output −

Use connection wire rated for at least 90°C (194°F).

• For reference only; follow the dimmer manufacturer's wiring diagram. Lead colours are from the 60 W product label. Full steps are on the FL-DPJ installation sheet.