DRIVER SPECIFICATIONS

This 2-foot driver is a reliable solution for slim LED fixtures, delivering consistent performance and easy integration into various lighting designs. It features three independent 10W outputs, controlled by 0-10V dimming signals, and accepts full voltage input.

The metal casing ensures excellent heat dissipation, improving reliability and extending the product's lifespan. Built-in protections against overvoltage (OVP), short circuits (SCP), and overheating (OTP) further enhance stability and safety.

Details:

- Isolated constant current driver with three independent outputs
- Dimming capability down to 1% with no flicker
- Comprehensive protection: SCP, OVP, OTP
- Compact design for narrow spaces

APPLICATIONS

Ideal for panel lights, linear lights, floor lamps, and other slim LED fixtures in architectural, commercial, and residential settings.

ELECTRICAL PERFORMANCE

	Specification	Details
Input Performance	Input Voltage	120-277VAC
	Input Frequency	50/60Hz
	Efficiency	84.7% @ 120VAC Full Load 85.0% @ 230VAC Full Load 85.0% @ 277VAC Full Load
	Power Factor	≥ 0.9 @ 120VAC/60Hz (30-100%) ≥ 0.9 @ 230VAC/50Hz (100%) ≥ 0.9 @ 277VAC/60Hz (100%)
	THD @ Full Load	< 10% @ 120VAC (30-100%) < 20% @ 230VAC (100%) < 20% @ 277VAC (100%)
	Input Current	0.31A @ 120VAC Full Load 0.16A @ 230VAC Full Load 0.13A @ 277VAC Full Load
	Standby Power	< 1W
	Inrush Current	120V: 20A peak, 500 µs duration (10% Ipeak) 230V: 25A peak, 500 µs duration (10% Ipeak) 277V: 35A peak, 500 µs duration (10% Ipeak)
	Leakage Current	< 0.5mA @ 277VAC
Output Performance	Voltage/Current/Wattage	30-40VDC / 260mA x 3 / 30W
	Ripple Current	< 5%
	Channel	3 Channels
	Current Accuracy	±5%
	Open Circuit Voltage	< 50V
	Start-Up Time	< 0.5s @ 277V < 1s @ 120V
Functionality	Dimming Function	0-10V: 0.5V off / 0.7V on
	Dimming Current	< 1mA @ 10V < 2mA @ 0.7V
	Dimming Range	1% - 100%
Protection	Over Temperature	Automatic recovery
	Overload	Automatic recovery
	Short Circuit Protection	Automatic recovery

Environment

Safety Compliance	UL8750
EMC	Complies with FCC Part 15
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Storage Temperature/ Humidity	-4°F to 185°F (-20°C to 85°C), 20-90% RH TC = 194°F
Lifetime	50,000 hours @ TC: 185°F (85°C)
Surge Rating	L-N: 1KV, L/N-FG: 2KV
IP Grade	IP20
Material	Iron Casing

Size and Weight

Length	9.45 in
Width	1.69 in
Height	1.22 in
Locating Hole Distance	8.98 in
Weight	0.95 lb

Supplementary Explanation

The LED driver is a component of the whole lamp used in conjunction with terminal equipment. EMC performance may vary due to the impact of LED lighting and wiring.

Terminal equipment manufacturers need to re-confirm the entire device's EMC performance.

Basic Electrical Parameter

30V/260mA

Input Voltage (V)	P (W)	Power Factor	THD (%)	Output Voltage (V1)	Output Current (mA1)	Output Voltage (V2)	Output Current (mA2)	Output Voltage (V3)	Output Current (mA3)	Efficiency (%)	Open Circuit Voltage (V)
100V	29.1	0.997	4.0	30.2	260	30.5	257	30.3	262	80.7	45.6
120V	28.8	0.995	4.2	30.1	260	30.1	258	30.1	262	80.9	45.6
180V	28.5	0.981	6.0	30.1	260	29.8	257	29.7	262	81.4	45.6
230V	28.4	0.954	11.6	30.1	260	29.7	258	29.6	262	81.3	45.6
277V	28.4	0.919	14.2	29.9	260	29.6	258	29.5	262	80.9	45.6

36V/260mA

Input Voltage (V)	P (W)	Power Factor	THD (%)	Output Voltage (V1)	Output Current (mA1)	Output Voltage (V2)	Output Current (mA2)	Output Voltage (V3)	Output Current (mA3)	Efficiency (%)	Open Circuit Voltage (V)
100V	34.2	0.997	4.8	36.1	260	36.5	257	36.6	262	82.7	45.5
120V	34.1	0.996	3.8	36.1	260	36.5	257	36.6	262	82.9	45.5
180V	33.9	0.985	6.6	36.1	260	36.5	258	36.4	262	83.4	45.5
230V	33.9	0.968	7.5	36.0	260	36.5	258	36.2	262	83.4	45.5
277V	33.9	0.939	13.8	36.0	260	36.5	258	36.1	262	83.5	45.5

40V/260mA

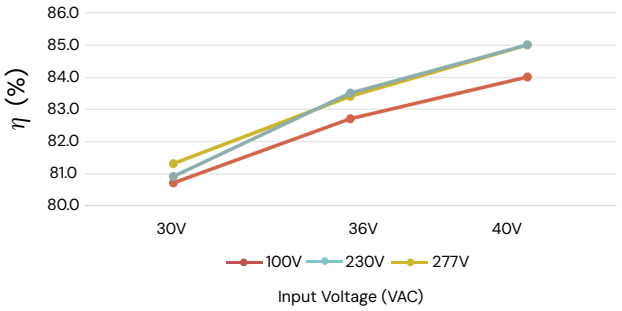
Input Voltage (V)	P (W)	Power Factor	THD (%)	Output Voltage (V1)	Output Current (mA1)	Output Voltage (V2)	Output Current (mA2)	Output Voltage (V3)	Output Current (mA3)	Efficiency (%)	Open Circuit Voltage (V)
100V	37.6	0.999	3.4	40.4	262	40.1	260	40.6	262	84.0	45.5
120V	37.4	0.996	4.1	40.4	262	40.1	260	40.6	262	84.7	45.5
180V	37.2	0.988	5.6	40.4	262	40.0	260	40.6	262	85.0	45.5
230V	37.1	0.966	9.6	40.4	262	40.0	261	40.6	262	85.0	45.5
277V	37.1	0.940	13.3	40.4	262	40.0	261	40.6	262	85.0	45.5

Starting Voltage: 0.7V (on) **Shut-Off Voltage: 0.5V (off)** **Dimming Minimum Current: 3mA**

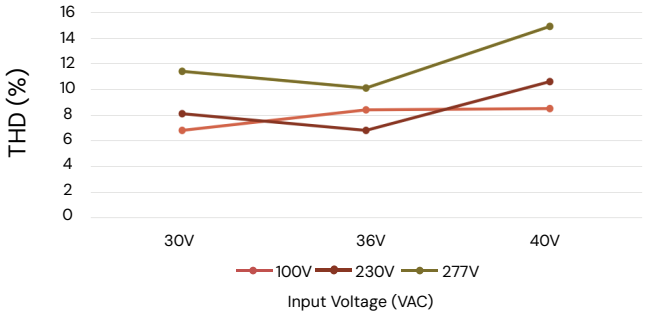
Typical Curve

Conditions: The test curves represent three channel groups outputting a simultaneous current of 260mA each.

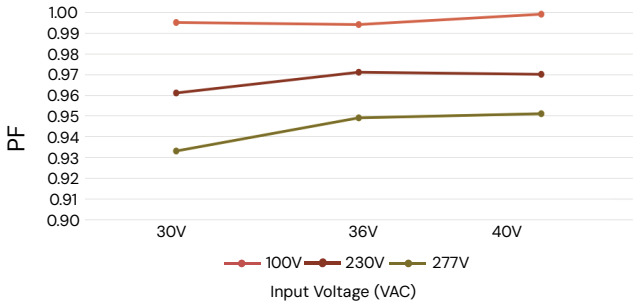
THD vs. Output Voltage



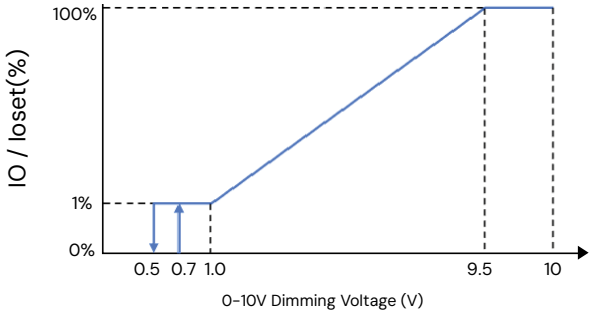
THD vs. Load



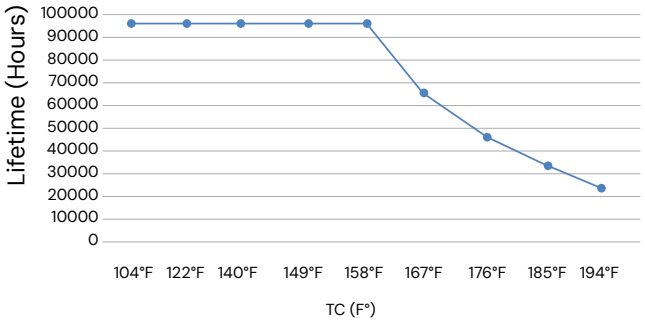
PF vs. Load



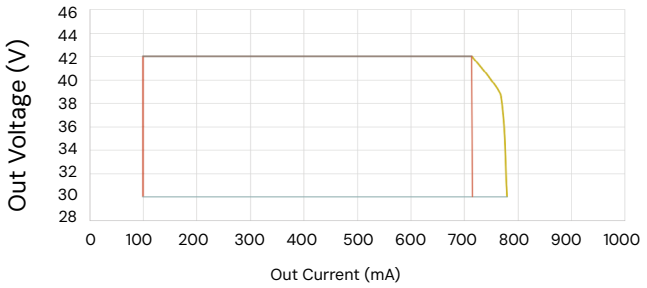
Output curren vs. Dimming Voltage



Lifetime vs. TC

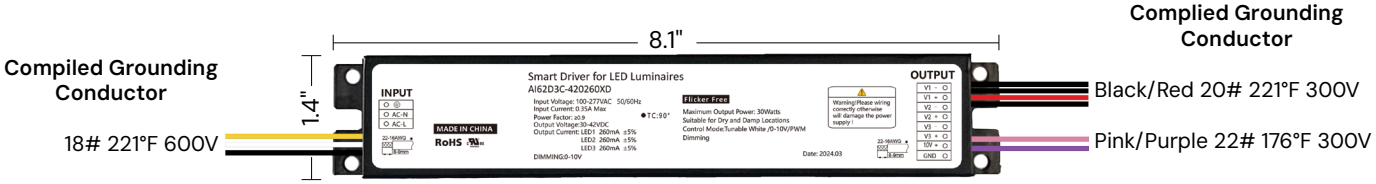


Output Voltage vs. Output Current



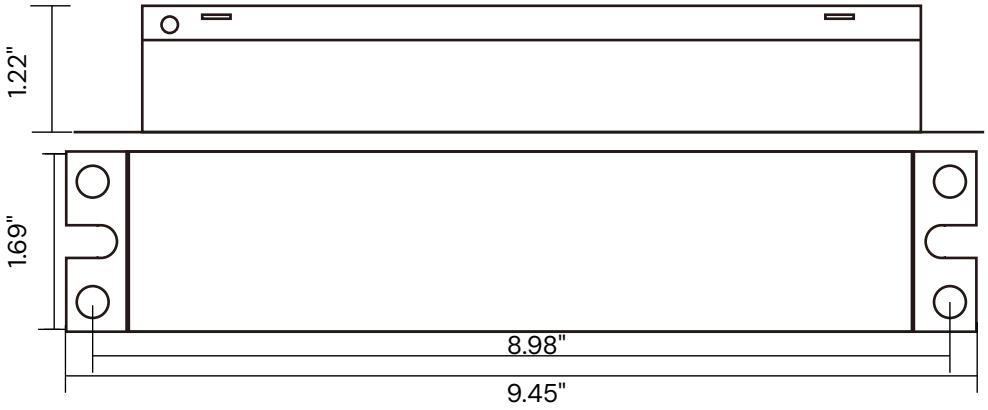
Note: Within the output voltage range, the maximum output power does not exceed 30W.

Label and Grounding



The output supports connection to three independent groups of lamp beads. Terminals V1+/V2+/V3+ serve as the common positive electrodes, while V1-/V2-/V3- provide three separate negative terminals. For dimming, connect DIM to the 0-10V positive pole and GND to the 0-10V negative pole.

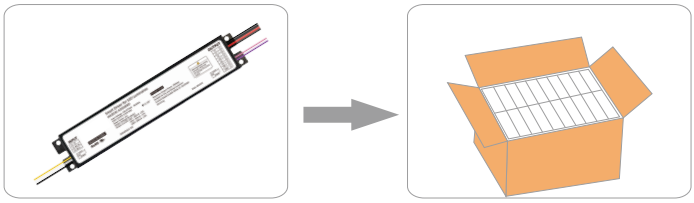
Linedrawings and Dimensions



Packaging

Packing Dimensions

Length: 13.78"
Width: 12.60"
Height: 9.45"
Weight: 50 pieces in 1 carton: 50.71 pounds



LED DRIVER

PCS* LAYER= PCS/ CARTON

Installation and Safety Guidelines

1. **Avoid Parallel Connections:** Do not connect two power supply outputs in parallel, as this will cause damage to the power supply.
2. **Programming Note:** Programming must be performed at the factory.
3. **Non-Waterproof Product:** This product is not waterproof. Protect it from sunlight and rain. For outdoor installations, ensure it is housed in a waterproof enclosure.
4. **Heat Dissipation:** Proper heat dissipation extends the product's lifespan. Install the product in a well-ventilated area.
5. **Professional Handling Required:** Only qualified professionals should install and debug this product. Do not attempt self-repair.

Additional Information

- The contents of this manual are subject to updates without prior notice.
- If the product's features differ from the manual, refer to the product's actual functionality.
- For further assistance or inquiries, please contact us.