

DRIVER SPECIFICATIONS

This 4-foot driver is a reliable solution for slim LED fixtures, delivering consistent performance and easy integration into various lighting designs. It features three independent 20W 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	86.7% @ 120VAC Full Load 87.7% @ 230VAC Full Load 87.6% @ 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	0.61A @120VAC Full Load 0.32A @230VAC Full Load 0.26A @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
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/520mA

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	56.3	0.995	6.8	30.3	519	30.5	515	30.4	522	83.8	42.4
120V	55.5	0.994	4.6	30.1	519	30.3	515	30.2	523	84.6	42.4
180V	54.7	0.982	6.3	30.1	519	30.2	515	30	523	85.7	42.4
230V	54.4	0.961	8.1	30	519	30	515	29.9	523	85.8	42.4
277V	54.3	0.933	11.4	29.9	519	29.9	515	29.8	523	85.6	42.4

36V/520mA

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	67.4	0.994	8.4	36.8	519	36.7	515	36.2	523	84.4	42.4
120V	66.8	0.994	7.6	36.8	519	36.7	516	36.6	523	85.4	42.4
180V	65.8	0.986	4.2	36.8	519	36.7	516	36.3	524	86.6	42.4
230V	65.5	0.971	6.8	36.8	519	36.7	515	36.2	524	86.9	42.4
277V	65.6	0.949	10	36.8	519	36.7	515	36.2	523	85.2	42.4

40V/520mA

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	74.1	0.999	8.5	40.5	524	40.4	515	40.5	522	85.2	42.4
120V	72.8	0.999	7.8	40.2	524	40.6	518	40.5	522	86.7	42.4
180V	72	0.98	5.9	40.1	524	40.5	518	40.4	523	87.5	42.4
230V	71.7	0.971	10.6	40.1	524	40.1	518	40.4	523	87.7	42.4
277V	71.8	0.951	14.9	40.1	524	40.4	518	40.4	523	87.6	42.4

Starting Voltage: 0.7V (on)

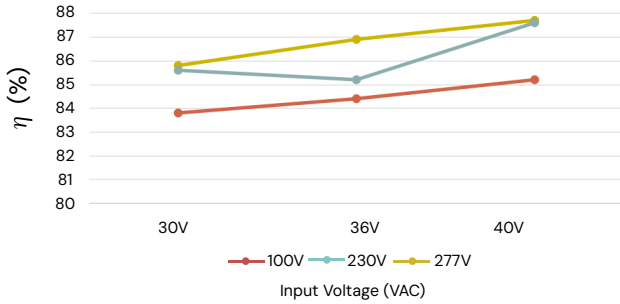
Shut-Off Voltage: 0.5V (off)

Dimming Minimum Current: 7mA

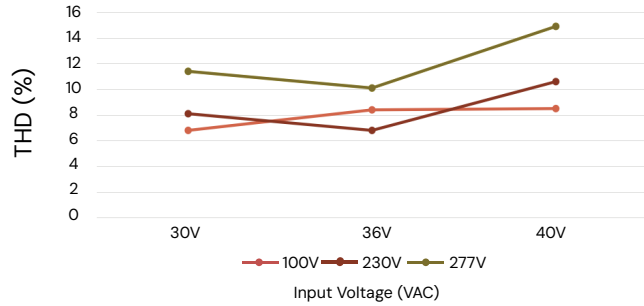
Typical Curve

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

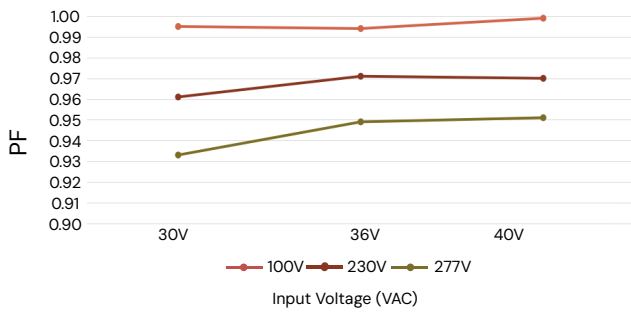
THD vs. Output Voltage



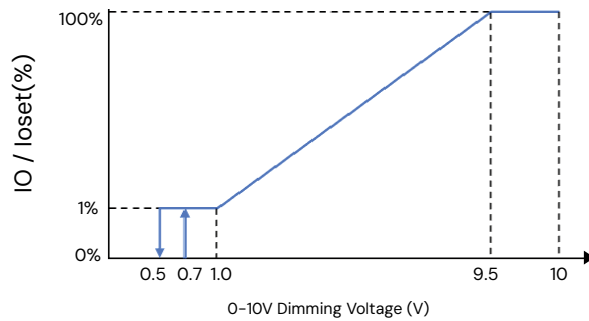
THD vs. Load



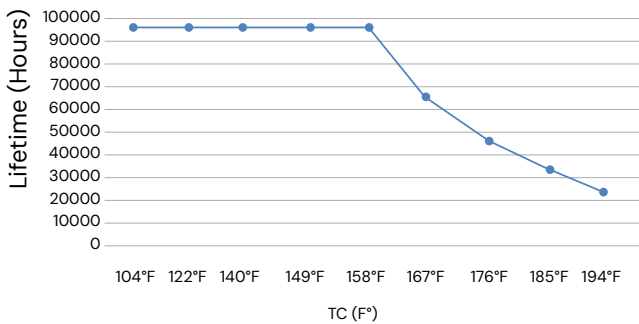
PF vs. Load



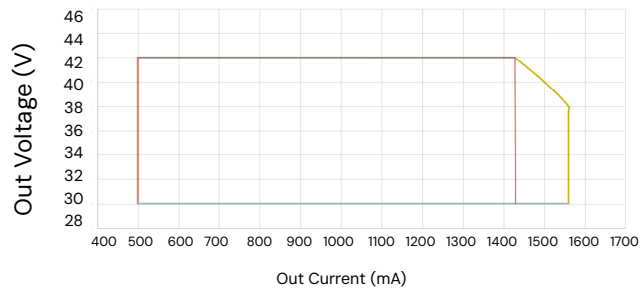
Output current vs. Dimming Voltage



Lifetime vs. TC

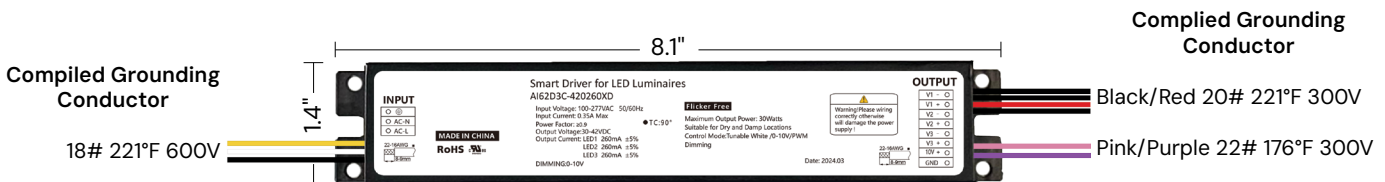


Output Voltage vs. Output Current



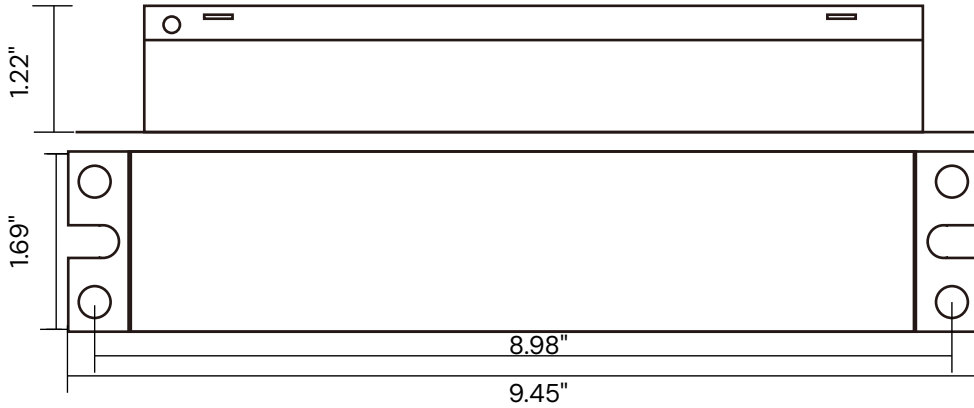
Note: Within the output voltage range, the maximum output power does not exceed 30W.

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

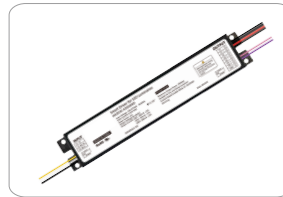
Packing Dimensions

Length: 13.78"

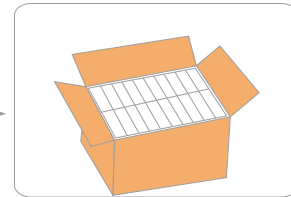
Width: 12.60"

Height: 9.45"

Weight: 50 pieces in 1 carton: 50.71 pounds



LED DRIVER



PCS* LAYER= PCS/ CARTON

Installation and Safety Guidelines

- Avoid Parallel Connections:** Do not connect two power supply outputs in parallel, as this will cause damage to the power supply.
- Programming Note:** Programming must be performed at the factory.
- 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.
- Heat Dissipation:** Proper heat dissipation extends the product's lifespan. Install the product in a well-ventilated area.
- 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.