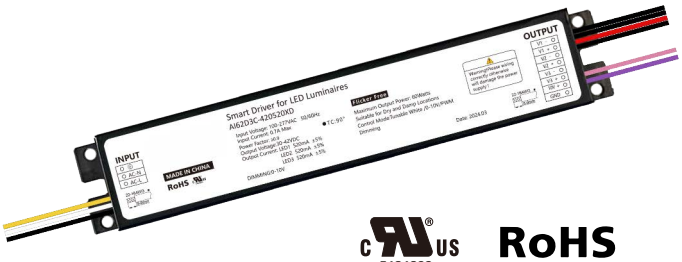
4-LB-LED-DR-DIM10-60W

4-LB-LED-DR-DIM10-60W is an isolated constant current driver with three independent outputs, each delivers 20W. Adopting 0-10V signals controls three currents, with full voltage input. The metal casing has a good heat dissipation, which greatly improves the reliability of the product and extends its lifetime. Overvoltage protection, short circuit protection, and over temperature protection ensure the stability of this product.



E484893 RoHS

Product Features:

- -Isolated constant current driver
- Three independent outputs
-All-Round Protection: SCP, OVP,OTP
-Deeply dim down to 1%, No flicker





*Suitable for panel lights, linear lights, floor lamps and other slim LED lights with narrow spaces.

Electrical Performance

Model No.	4-LB-LED-DR-DIM10-60W	
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,500us duration(10% Ipeak)
		230V 25A peak,600us duration(10% Ipeak)
		277V 35A peak,800us duration(10% Ipeak)
	Leakage Current	<0.5mA@277V
Output performance	Voltage /Current /Wattage	30-40Vdc/520mA*3/60W
	Ripple Current	<5%
	Channel	3 Channel
	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
	Overloaded	Automatic recovery
	Short Circuit Protection	Automatic recovery

Size and Weight

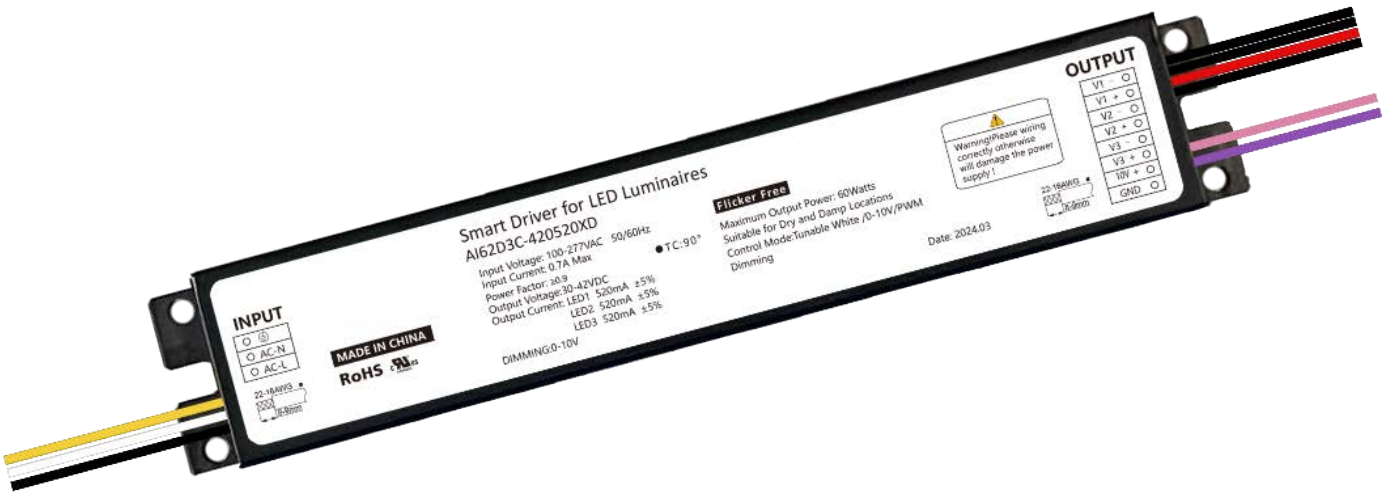
Length	240 mm
Width	43mm
Height	31 mm
Locating Hole Distance	228mm
Weight	460g

Environment

Safety Compliance	UL8750
EMC	Comply with FCC part15
Operating Temperature	-20°C to 50°C
Storage Temperature/Humidity	-20°C to 85°C, 20-90%RH
Storage Temperature/Humidity	TC=90℃
Lifetime	50000hours@TC:85℃
Surge Rating	L-N 1KV, L/N-FG 2KV
IP Grade	IP20
Material	Iron Casing

Supplementary explanation

LED driver is a component of whole lamp in conjunction with the use of terminal equipment, EMC performance due to the impact of LED lighting and wiring, terminal equipment manufacturers need to re-confirm the entire device EMC



Basic Electrical Parameter:

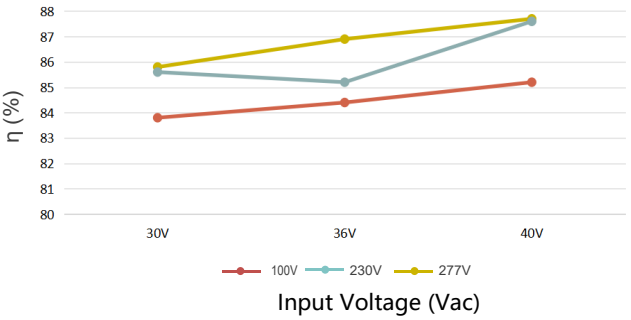
30V/520mA											
Input Voltage (V)	PI(W)	Power Factor	THD(%)	Output Voltage (V1)	Output Current (mA1)	Output Voltage (V2)	Output Current (mA2)	Output Voltage (V3)	Output Current (mA3)	Efficiency	Open Circuit Voltage (V)
100V	56.3	0.995	6.8	30.3	519	30.5	515	30.4	522	83.8	42.4
120V	55.5	0.994	4.6	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	30.0	523	85.7	42.4
230V	54.4	0.961	8.1	30.0	519	30.0	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)	PI(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	10.0	36.8	519	36.7	515	36.2	523	85.2	42.4
40V/520mA											
Input Voltage (V)	PI(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	0.980	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（V） 0.7 on	Shut-off voltage（V） 0.5 off	Dimming min. current（mA） 7

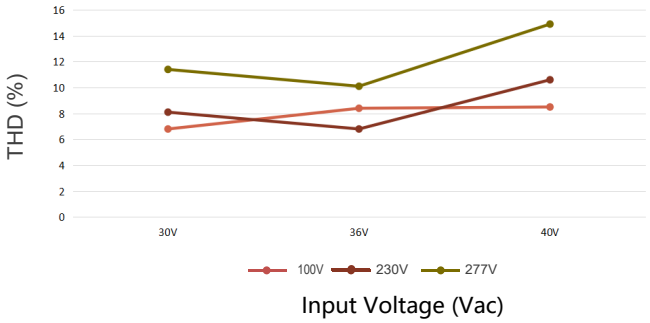
Typical Curve:

Testconditions:Thefollowingtestcurves arebasedon 3 groups ofchannels outputting 260mA current simultaneously.

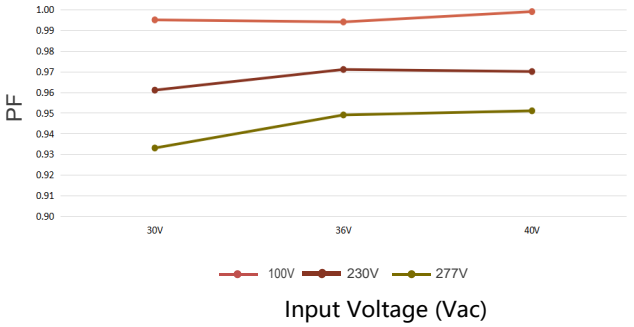
THD vs. Output Voltage



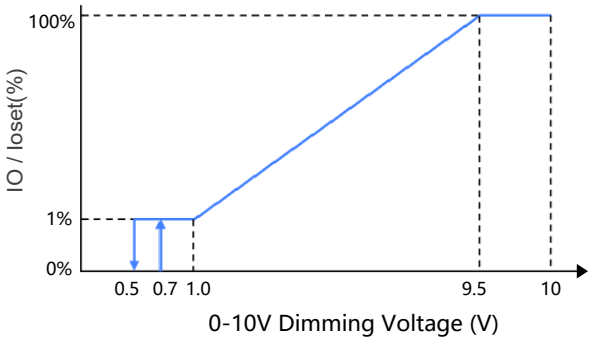
THD vs. Load



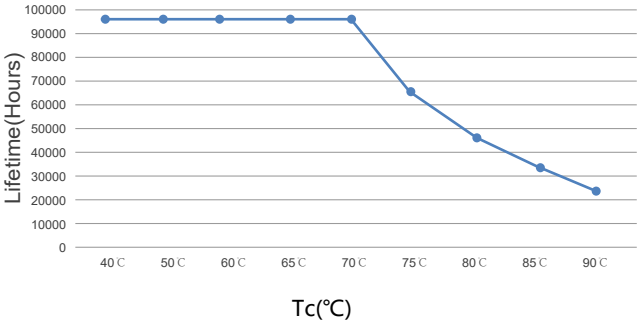
PF vs. Load



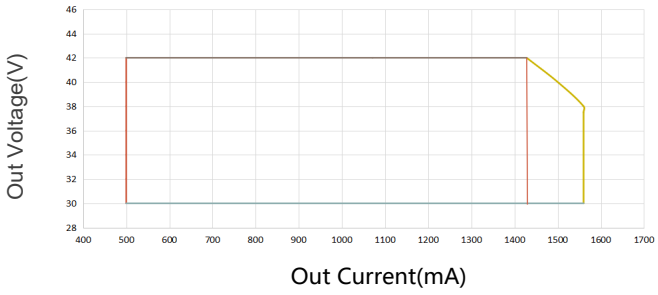
Outputcurren vs. Dimming Voltage



Lifetime vs. Tc.

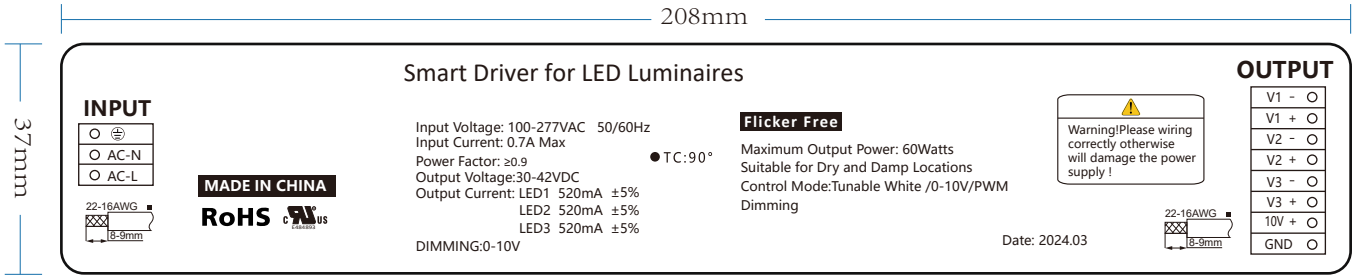


Output Voltage vs. Output Current

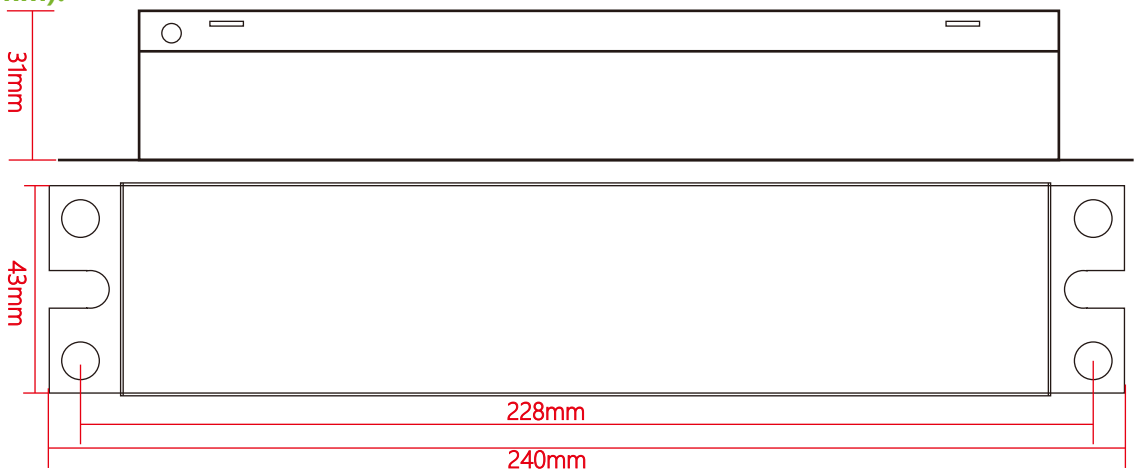


Note: Withintheoutput voltagerange,the maximum outputpowerdoes not exceed 30W.

Labeling:



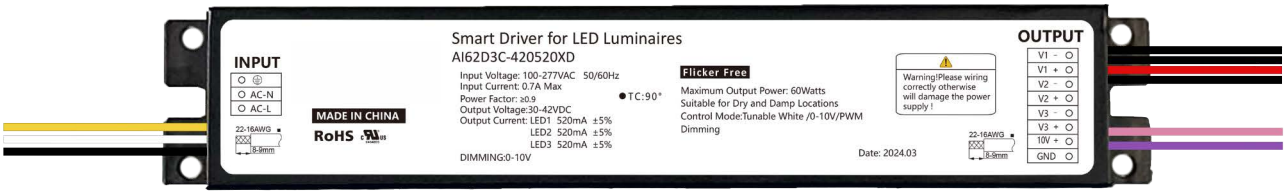
Dimension(mm):



Gounding:

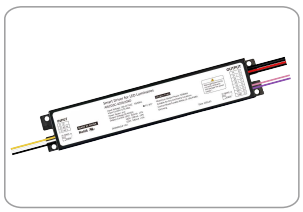
Complied Grounging Conductor: 18# 105℃ 600V

Complied Grounging Conductor:
Black/Red 20# 105℃ 300V
Pink/Purple 22# 80℃ 300V

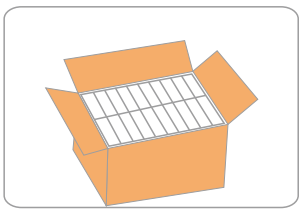


The output can be connected to three independent groups of lamp beads, V1+/V2+/V3+ are the common positive electrode, V1-/V2-/V3 - There are three independent negative poles, DIM is connected to the 0-10V positive pole, and GND is connected to the 0-10V negative pole.

Packaging:



LED DRIVER



PCS* LAYER= PCS/ CARTON

Packing Dimension		
Length	Width	Height
350MM	320MM	240MM
50PCS 1CTN/WEIGHT≈24KG		

Precautions:

1. Two power supply outputs cannot be connected in parallel, otherwise the power supply will be damaged.

2. Programming requires factory operation.

3. This product is not waterproof and needs to be protected from sunlight and rain. If installed outdoors, please use a waterproof box.4

. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.

5. This product should be debugged and installed by professionals with professional qualifications. Please do not repair it yourself.

※The contents of this manual are subject to update without prior notice. If the function of the product you are using is inconsistent with the instruction manual, please refer to the function of the product. If you have any questions, please contact us.