

LED Driver User-Manual



Model No.: PL12/24DC80W-A

1. DESCRIPTION

PL12/24DC80W-A is a DC-DC LED driver with functions of DC 12V/24V automatically identification, output voltage 15V~70V, and output current adjustable from 150mA to 2800mA.

The product can automatically identify the output voltage and apply to most LED lights. The product adopts waterproof design, and infrared control. The product has high exchange efficiency and high accuracy. The output current is adjustable and the LED output power can be adjusted in 3 time frames. For example, if you use PL12/24DC80W-A, you can let 60W LED light work at 50W, 45W, 35W, 20W or any power you want. This energy-saving function is very profitable. This LED driver is an intelligent and highly reliable.

2. FEATURES

- 1) Adopt intelligent temperature control. The product can automatically adjust or close the load under high temperature;
- 2) Automatically identify output voltage, without adjusting the output voltage manually;

- 3) LED's output current can be adjusted unlimitedly;
- 4) High exchange efficiency and high constant current accuracy;
- 5) Waterproof design and high IP grade;
- 6) A variety of protection functions.

3. INSTALLATION

- 1) Before connecting wires, firstly program the product;
- 2) Connect the positive and negative poles of the LED lamp to the output positive and negative poles of the product;
- 3) Connect the positive and negative poles of the input end to 12V or 24V power supply, and then the product gets into work.

4. NOTES

- 1) The LED driver is wide voltage output. Before using the controller, make sure the LED light can match the driver.
- 2) Please connecting wires in order. Wrong wire connection lead to system's misjudgment and driver's damage.

5. INDICATORS

State	Idle (green)	Discharge (red)	Remarks
Discharging	off	on	Normal
Finish discharging	Slow flicker	Slow flicker	Normal. Blink alternately
Abnormal input voltage protection	Fast flicker	on	Abnormal. Check whether input voltage is 12V or 24V.
output end over power protection	on	Slow flicker	Abnormal. Check whether the output power is more than rated power

output end short circuit protection	off	Fast flicker	Abnormal. Check whether the lamp is short circuit, or try another lamp.
output end open circuit protection	on	Fast flicker	Abnormal. Please do connect lamp first, and then connect the input end. If the problem isn't removed, please check +/- of lamp is connected correctly, or try another lamp.
1) No flicker means OK; 2) Slow flicker (2 seconds) means recoverable error. There is no need to solve the error manually; 3) Fast flicker (0.5 seconds) means unrecoverable error. The error need to be solved manually.			

6. SPECIFICATIONS

Input voltage	DC12V/24V(automatically identification)
Output voltage	15V-70V (12V system) 29V-70V (24V system)
Max. output power	80W
Output current	150mA-2800mA (adjustable)
Max. conversion efficiency	96%
Max. current error	3%
Working temperature	-35℃ ~ +60℃ (automatically drop power at +65℃)
Lifetime	More than 50000 hours
IP grade	IP67
Weight	160g
Size	67 mm×76mm×23mm

7. APPLICATION

12V system: LED lamps (max. 50W, 15~70V)

24V system: LED lamps (max. 70W, 29~70V. When LED's voltage is 30V-33V, LED can be 80W)

8. SAFETY AND PROTECTION

Open circuit protection, over voltage protection of output end, over load protection, short circuit protection, reverse polarity protection of input end, Lightning protection, and over temperature protection.

9. WARRANTY

Two years since the date of ex-factory

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