

Waterproof(IP67) LED Driver

Waterproof power supply is used in the case of dust-proof with waterproof grade IP67, with multiple protections such as short circuit, over current, overload and so on.

Environmental parameters/electromagnetic compatibility:

Operating temperature: -40-80 °C (outer surface temperature of the shell)

Storage temperature: -40-85 °C

Operating humidity :10-90% relative humidity

Mean Life: Mean time between failures (MTBF)50,000 hours

Safety certification: in accordance with UL60950,EN61347

Electromagnetic interference :CISPR15; FCC 47CFR-Part15B



Main features:

1. High reliability.

especially like the drive power of LED street lamps, installed in the air, maintenance is not convenient, maintenance costs are also large

2. High efficiency.

LED is energy saving products, driving power efficiency to be high. It is particularly important for the structure of the power supply installed in the lamps and lanterns. Because the luminous efficiency of leds decreases as the LED temperature increases, the heat dissipation of leds is very important. The efficiency of the power supply is high, its consumption power is small, and the heat emitted in the lamps and lanterns is small, which reduces the temperature rise of the lamps and lanterns. It is beneficial to delay the light decay of LED.

3. High power factor.

The power factor is the load requirement of the grid. General 70 watts below the use of electrical appliances, no mandatory indicators. Although the power factor of a single appliance with small power is low, it has little impact on the power grid, but at night when everyone lights up, the same load is too concentrated, it will produce more serious pollution to the power grid. For 30 watts ~40 watts LED drive power supply, it is said that in the near future, there

may be a certain index requirement on the power factor.

4. Two kinds of driving methods.

one is a constant voltage source for multiple constant current sources, each constant current source for each LED power supply. In this way, the combination is flexible, one LED failure, does not affect the work of other LED, but the cost will be slightly higher.

The other is direct constant current power supply, LED series or parallel operation. It has the advantage of low cost, but poor flexibility, but also to solve a LED failure, does not affect the operation of other LED problems. These two forms coexist for a period of time. Multichannel constant-current output power supply is better in cost and performance. It may be the mainstream direction.

5. Surge protection.

LED anti-surge ability is relatively poor, especially anti-reverse voltage ability. It is also important to strengthen this protection. Some LED lights are installed outdoors, such as LED street lamps. Due to grid load throwing and lightning sensing, various surges can enter from the grid system, some of which can cause LED damage. Therefore, the LED driving power supply should have the ability to suppress the intrusion of the surge and protect the LED from being damaged.

6. Protection function.

In addition to the conventional protection function of power supply, it is best to add LED temperature negative feedback in the constant current output to prevent LED temperature from being too high.

7. Protections.

External installation of lamps, power structure to waterproof, moisture-proof, shell to sun.

8. The life of the driving power supply should match the life of the LED.

9. To meet the requirements of safety regulations and electromagnetic compatibility.

XDL ultra small IP67 LED drivers are constant voltage type which includes 12V/24V LED driver from 20W to 400W large range, it can meet a lot of requirements of industrial or commercial fields like industrial automation, scientific research equipment, LED lighting, industrial control equipment, communication equipment, power equipment, instrumentation, medical equipment, semiconductor refrigeration and heating, air purifiers, electronic refrigerators, liquid crystal displays, audio-visual products, computer cases and digital products and so on.

With the increasingly wide application of LED, the performance of LED drive power will be more and more suitable for LED requirements.