

800W Grow Light LED Driver IP67 0-10V Dimming For Commercial Greenhouses

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: ANROFU
- Certification: CE ROHS FCC ETL DLC
- Model Number: USP-800-54-BA
- Minimum Order Quantity: 1
- Delivery Time: 3-5 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000pcs per day



Product Specification

- Input Voltage: 120-277VAC
- Warranty: 5 Years
- Ip Rating: IP67
- Dimensions: 420mm X 90mm X 45mm
- Output Voltage: 30-56VDC
- Dimmable: 0-10V Dimming
- Output Current: 0-16.7A
- Application: Commercial Greenhouses, Grow Tents, Vertical Farms, And Indoor Gardens.
- Highlight: **800W Grow Light LED Driver, Grow Light LED Driver IP67, Greenhouses Grow Light LED Driver**

Product Description

800W Transform Your Plant Growth With Our Revolutionary LED Grow Light Driver

Product Description:

Boasting an impressive IP67 rating, this LED Grow Light Driver is built to last and withstand any harsh outdoor conditions that may come its way. You can rest assured that your plants will receive the necessary lighting, no matter the weather conditions outside.

Our LED Grow Light Driver comes with a 5-year warranty, ensuring your peace of mind and guaranteeing that you get the most out of your investment. With its long lifespan, you won't have to worry about replacement costs anytime soon.

The dimensions of this driver are 420mm x 90mm x 45mm, making it a compact yet powerful addition to your indoor or outdoor growing setup. Its size makes it easy to install and maneuver, allowing for a hassle-free setup process.

Designed for indoor applications, our LED Grow Light Driver can be used to power a wide range of grow lights, perfect for any grower looking for a reliable and efficient lighting solution. Whether you're growing herbs, vegetables, or flowers, our LED Grow Light Driver is up to the task.

Invest in the best with our LED Grow Light Driver, the perfect solution for all your indoor and outdoor growing needs. With its high-quality construction, impressive output current range, and long-lasting warranty, you won't find a better option on the market.

Features:

Product Name: LED Grow Light Driver

Warranty: 5 Years

Output Voltage: 30~56VDC

Output Current: 1.5A-3A

Dimensions: 420mm X 90mm X 45mm

Technical Parameters:

| MODEL | | USP-800-54 | USP-800-54-B | USP-800-54-BA | NOTE |
|-------|---------------------------|--|--|--|---------------|
| INPUT | VOLTAGE | 120~277VAC | 120~277VAC | 120~277VAC | |
| | FREQUENCY | 50~60Hz | 50~60Hz | 50~60Hz | |
| | MAXIMUM INPUT CURRENT | 8.2A | 8.2A | 8.2A | |
| | INRUSH CURRENT | ≤80A | ≤80A | ≤80A | |
| | STANDBY POWER CONSUMPTION | ≤3w | ≤3w | ≤3w | |
| | POWER FACTOR | ≥0.98(120Vac) ≥0.98(230Vac) ≥0.97(277Vac) | ≥0.98(120Vac) ≥0.98(230Vac) ≥0.97(277Vac) | ≥0.98(120Vac) ≥0.98(230Vac) ≥0.97(277Vac) | Full-load |
| | THD | ≤6.0%(120Vac) ≤6.0%(230Vac) ≤9.0%(277Vac) | ≤6.0%(120Vac) ≤6.0%(230Vac) ≤9.0%(277Vac) | ≤6.0%(120Vac) ≤6.0%(230Vac) ≤9.0%(277Vac) | Full-load |
| | VOLTAGE RANGE | 30~56V | 30~56V | 30~56V | |
| | CURRENT RANGE | Max 16.7A | 0~16.7A | 0~16.7A | |
| | MAXIMUM NO-LOAD VOLTAGE | ≤58V | ≤58V | ≤58V | |
| | EFFICIENCY | ≥90.0% @120Vac ≥92.0% @230Vac ≥93.0% @277Vac | ≥90.0% @120Vac ≥92.0% @230Vac ≥93.0% @277Vac | ≥90.0% @120Vac ≥92.0% @230Vac ≥93.0% @277Vac | Full-load |
| | CURRENT ACCURACY | ±5% | ±5% | ±5% | The actual±3% |
| | RIPPLE VOLTAGE | ±1% max 2% | ±1% max 2% | ±1% max 2% | |
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| | | | | | |
|-----------------------------------|------------------------|-------------|-------------|-------------|--------------------------------------|
| OUTPUT | RIPPLE CURRENT | ±5% max 10% | ±5% max 10% | ±5% max 10% | u l l - l o a d |
| | TURN ON TIME | ≤2S | ≤2S | ≤2S | |
| | LINEAR ADJUSTMENT RATE | ±1% | ±1% | ±1% | |
| | LOAD REGULATION | ±3% | ±3% | ±3% | The actual±2% |
| AUXILIARY POWER SUPPLY (OPTIONAL) | OUTPUT VOLTAGE | / | / | 12.8V±10% | |
| | OUTPUT(CURRENT) | / | / | 300mA±5% | |
| | | | | | |

✦ Dimming Performance (three-in-one dimming)

| PARAMETER | | LEAST VALUE | TYPICAL CASE | CREST VALUE | NOTE |
|-------------------------------|--------------------------------------|-------------|--------------|-------------|--|
| 0-10V DIMMING (OPTIONAL) | APPLIED PRESSURE | 0V | 0-10V | 15V | Over 15V may cause the internal components of the power supply to burn out, and the function of the power supply is abnormal |
| | THE DIMMING RANGE | 8% | 10-100% | 100% | DIM + comes with an output of 100 uA current |
| | PUSH THE DIMMING VOLTAGE | 0.8V | 1-10V | 10V | DIM + and DIM-no output |
| RESISTANCE DIMMING (OPTIONAL) | EXTERNAL LIGHT ADJUSTMENT RESISTANCE | 8K Ω | 0-100KΩ | 100KΩ | 90 K Ω above is 100% output |
| | THE DIMMING RANGE | 8% | 10-100% | 100% | DIM + comes with 100 uA constant flow output |
| PWM AIMING (SELECTABLE) | PWM HIGH LEVEL | 9.5V | 9.6-10V | 10.5V | Dimmer PWM high level maximum |
| | PWM LOW LEVEL | 0V | 0-0.35V | 0.5V | Dimmer PWM low level maximum |
| | THE PWM DIMMING FREQUENCY SEGMENT | 500Hz | 1KHz | 2KHz | Best job at 1 KHz |
| | PWM DUTY CYCLE | 7% | 10-100% | 100% | DIM + and DIM-no output |
| | THE DIMMING RANGE | 8% | 10-100% | 100% | DIM + comes with 100 uA constant flow output |
| THE DIMMING SHUT DOWN | TURN OFF THE VOLTAGE | 5% | 6% | 7% | According to the voltage, PWM, resistance ratio |
| | CUT-IN VOLTAGE | 6% | 7% | 8% | |

Note: 1. When using PWM or voltage dimming, please note that the dimmer controller is set at 10% to the lowest dimming value, and be set to close below 10%, and the lower limit is not lower than 8%! For other dimming methods, please also refer to this method.

2. When the resistance is used for parallel dimming (parallel light modulation), the number of parallel units is: N, then the resistance for dimming is: $90\text{ K}\Omega / N$, and the dimming resistance value must be greater than the calculated value, then 8%~100% dimming can be realized.

3. When the dimmer is used for dimming, when 20% of the power is input, the power supply may have slight noise and water ripple phenomenon. At this time, the power supply enters the light load and high efficiency frequency jump mode, which is a normal phenomenon.

Applications:

Now, let's talk about the product application occasions and scenarios. The LED Grow Light Driver is a crucial component of indoor farming and horticulture. It is used to power LED grow lights that emit the necessary wavelengths of light to stimulate plant growth. The driver can be used in various settings, including commercial greenhouses, grow tents, vertical farms, and indoor gardens.

One of the primary application scenarios of the LED Grow Light Driver is in commercial greenhouses. Greenhouses are large structures that incorporate climate control and irrigation systems to create an optimal growing environment for plants. The LED Grow Light Driver can be used to power LED grow lights, which can supplement the natural light and promote plant growth. This is particularly useful in areas with limited sunlight or during the winter season.

Another application scenario is in indoor gardens. LED grow lights powered by the LED Grow Light Driver can be used to grow plants indoors without the need for natural sunlight. This is especially useful for people who live in apartments or areas with limited outdoor space. LED grow lights can be used to grow a variety of plants, including herbs, fruits, and vegetables.

The LED Grow Light Driver can also be used in vertical farms. Vertical farms are facilities that use hydroponics, aeroponics, or aquaponics to grow plants in a vertical arrangement. This method of farming allows for maximum space utilization and efficient use of resources. LED grow lights powered by the LED Grow Light Driver can be used to supplement the natural light and promote plant growth.

Lastly, the LED Grow Light Driver can be used in grow tents. Grow tents are portable structures that can be set up in a room or garage. They are used to create an enclosed environment for plant growth. LED grow lights powered by the LED Grow Light Driver can be used in grow tents to provide the necessary light for plant growth.

Support and Services:

The LED Grow Light Driver product technical support and services include:

- Assistance with driver installation and setup
- Troubleshooting and diagnosis of any driver-related issues
- Firmware updates and upgrades
- Technical consultations and advice on driver usage and optimization
- Warranty and repair services
- Product documentation and user manuals

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