

500W Customized LED Grow Light Driver For Enhanced Plant Growth Efficiency

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-500-54-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

- Product Name: LED Grow Light Driver
- Output Current: 0-9.8A
- Output Voltage: 30-56VDC
- Warranty: 5 Years
- Dimensions: 350mm X 71.50mm X 42mm
- Input Voltage: 100-277VAC
- Dimmable: 0-10V Dimming
- Application: Indoor Garden
- Highlight: Customized LED Grow Light Driver, 500W LED Grow Light Driver

500W Customizable LED Grow Light Driver for Enhanced Plant Growth Efficiency

Product Description:

With dimensions of 350mm X 71.50mm X 42mm , this driver is compact and lightweight, making it easy to install and use. Its IP67 rating ensures that it is waterproof and dustproof, making it ideal for use in harsh environments.

The LED Grow Light Driver is backed by a 5-year warranty, giving you peace of mind and ensuring that you can rely on it for years to come. Its output voltage ranges from 30-56VDC, making it compatible with a wide range of LED grow lights.

Whether you are a professional grower or a hobbyist, the LED Grow Light Driver is the perfect choice for powering your grow lights. Its advanced technology, compact design, and durable construction make it a reliable and efficient solution for all your lighting needs.

Technical Parameters:

MODEL		USP-500-54	USP-500-54-B	USP-500-54-BA	NOTE
INPUT	VOLTAGE	100~277VAC	100~277VAC	100~277VAC	
	FREQUENCY	50~60Hz	50~60Hz	50~60Hz	
	MAXIMUM INPUT CURRENT	5.2A	5.2A	5.2A	
	INRUSH CURRENT	≤80A	≤80A	≤80A	
	STANDBY POWER CONSUMPTION	≤3w	≤3w	≤3w	
	POWER FACTOR	≥0.98(110Vac) ≥0.97(220Vac) ≥0.95(277Vac)	≥0.98(110Vac) ≥0.97(220Vac) ≥0.95(277Vac)	≥0.98(110Vac) ≥0.97(220Vac) ≥0.95(277Vac)	Full-load
	THD	≤ 7.0% (110Vac) ≤11.0% (220Vac) ≤10.0% (277Vac)	≤ 7.0% (110Vac) ≤11.0% (220Vac) ≤10.0% (277Vac)	≤ 7.0% (110Vac) ≤11.0% (220Vac) ≤10.0% (277Vac)	Full-load
OUTPUT	VOLTAGE RANGE	30~56V	30~56V	30~56V	
	CURRENT RANGE	Max 9.8A	0~9.8A	0~9.8A	

	MAXIMUM NO-LOAD VOLTAGE	≤58V	≤58V	≤58V	
	EFFICIENCY	≥91% @110Vac ≥92% @220Vac ≥93% @277Vac	≥91% @110Vac ≥92% @220Vac ≥93% @277Vac	≥91% @110Vac ≥92% @220Vac ≥93% @277Vac	Full-load
	CURRENT ACCURACY	±5%	±5%	±5%	The actual≤±3%
	RIPPLE VOLTAGE	±1% max 2%	±1% max 2%	±1% max 2%	Full-load
	RIPPLE CURRENT	±5% max 10%	±5% max 10%	±5% max 10%	
	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 (SELECT ABLE)	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

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:

The ANROFU LED Grow Light Driver has an output voltage of 30-56VDC and an input voltage of 100-277VAC, making it highly efficient and cost-effective. The IP67 rating ensures that the product is waterproof and dustproof, making it suitable for use in harsh environments.

The ANROFU LED Grow Light Driver can be used in a variety of applications, including agricultural settings, indoor gardening, and hydroponic systems. The product is ideal for use with LED grow lights, providing the necessary power to ensure healthy plant growth. The driver is designed to provide a stable current flow, preventing flickering and ensuring consistent light output.

The ANROFU LED Grow Light Driver is easy to install and use, making it an ideal choice for novice and experienced growers alike. The product is highly reliable and has a long lifespan, making it a cost-effective investment. The minimum order quantity is only one, and the product can be delivered within 3-5 working days. Payment terms are T/T, and the supply ability is 10000pcs per day, making it easy to obtain the product when needed.

In conclusion, the ANROFU LED Grow Light Driver is a high-quality product that is ideal for indoor plant growth. Its certifications, warranty, and IP67 rating make it a reliable and durable choice. Its efficiency, ease of use, and stable current flow make it an excellent investment for both novice and experienced growers. Place your order today and experience the benefits of this top-quality LED Grow Light Driver from ANROFU.

Support and Services:

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

Assistance with product installation and setup

Troubleshooting and diagnosis of any technical issues

Repair and replacement services for defective products

Product updates and software upgrades

Guidance on proper usage and maintenance

Expert advice and consultation on product optimization and customization

We are committed to providing top-notch technical support and services to ensure our customers have the best possible experience with our LED Grow Light Driver product.

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