

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [MARS HYDRO](#) /
- › [MARS HYDRO TS 3000 LED Grow Light User Manual](#)

MARS HYDRO Mars-TS-3000W-FBA

MARS HYDRO TS 3000 LED Grow Light User Manual

Model: Mars-TS-3000W-FBA

PRODUCT OVERVIEW

The MARS HYDRO TS 3000 LED Grow Light is a high-efficiency, full-spectrum lighting solution designed for indoor plant cultivation. It features a patented reflective aluminum hood and a new diode layout for uniform light distribution, suitable for various growth stages from seedling to flowering. This model is engineered to provide optimal light intensity and spectrum for robust plant growth in environments such as grow tents and greenhouses.



Image: The MARS HYDRO TS 3000 LED Grow Light, showcasing the main unit, external driver, hanging kits, and rope clip hangers.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The standard package for the TS 3000 LED Grow Light includes the following items:

- 1 x TS3000 LED Grow Light Unit
- 1 x Power Cord
- 1 x Rope Hanger (pair)
- 1 x Hanging Kits (set)
- 1 x User Manual (this document)

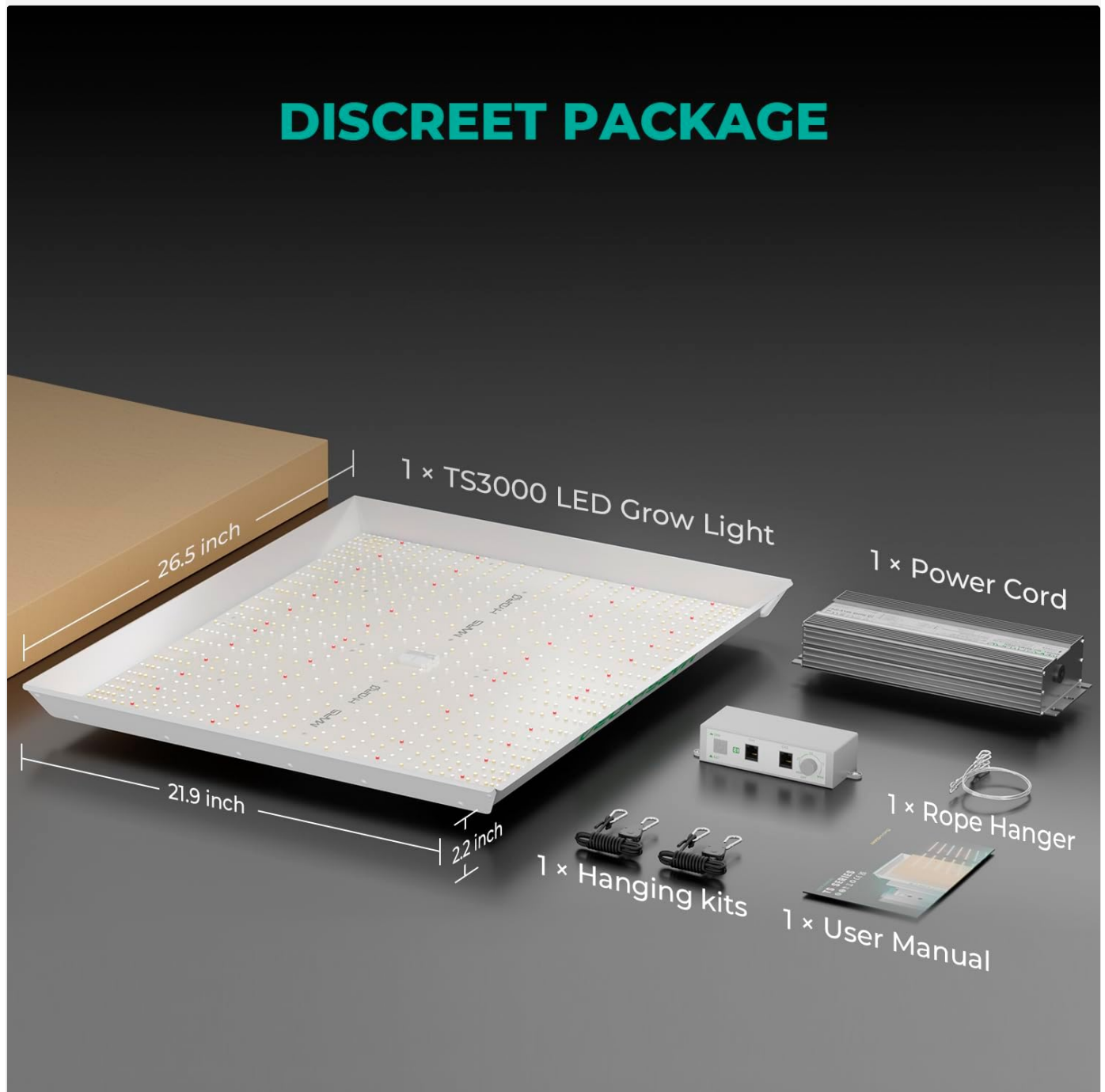


Image: An illustration detailing the contents of the product package, including the grow light, power cord, hanging accessories, and user manual.

SETUP AND INSTALLATION

Proper setup is crucial for optimal performance and safety. Follow these steps carefully:

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any signs of damage during transit.
2. **Assembly:** Attach the hanging kits to the designated points on the grow light fixture. Ensure they are securely fastened.
3. **Mounting:** Use the rope hangers to suspend the grow light from a sturdy support structure within your grow tent or greenhouse. Adjust the height according to the plant growth stage (refer to the "Operating Instructions" section for recommended hanging heights).
4. **Power Connection:** Connect the power cord to the external driver, then plug the driver into a compatible power outlet. Ensure the power source matches the light's voltage requirements (220 Volts as per specifications).
5. **Daisy Chain Setup (Optional):** For connecting multiple TS 3000 units, use the daisy chain feature. Up to 30 units can be daisy-chained in a group. Connect the output of one light's external driver to the input of the next light's external driver using appropriate cables.

TS3000 HOME GROW APPLICATIONS

Suitable for 4'x4'ft, grow tent(120X120cm)



Image: The TS 3000 LED Grow Light properly installed and operating within a typical home grow tent setup, illustrating its application.

OPERATING INSTRUCTIONS

The TS 3000 LED Grow Light is designed for ease of use with adjustable settings to optimize plant growth.

Dimming Function

The light features an independent dimming button and a dimming knob on the external driver, allowing for 0-100% intensity adjustment.

- **Dimmer Button:** Press to toggle the dimmer function ON or OFF.
- **Dimmer Knob:** Rotate the knob to adjust light intensity from 10% (MIN) to 100% (MAX). Turning the knob to "OFF" will power down the light.

DIMMING OPERATION

Effortlessly save energy by adjusting light intensity with the dimming knob

DIMMER BUTTON

DIM:
DIMMER ON
EXT:
DIMMER OFF

CH1

CH2

DIMMER KNOB

(10% - 100%)
OFF: POWER OFF



Image: A detailed view of the external driver, highlighting the dimmer button and the rotary dimming knob for light intensity adjustment.

Recommended Hanging Height and Dimmer Settings

Adjust the light's hanging height and dimmer setting based on the plant's growth stage to provide optimal light intensity

(PPFD).

TS3000 Hanging Height and Dimming Guide (Footprint: 4'x4')

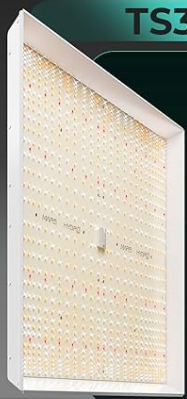
Growth Stage	Hang Height	Dimmer Setting	Intensity (PPFD)
Seedling/Clone	16" (40cm)	25%	130-450 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$
Vegetative	12" (30cm)	75%	350-1300 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$
Flowering	12" (30cm)	100%	500-2000 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$

TS3000 OPTIMIZED FOR EVERY STAGE

Hanging Height Dimming Guide

TS3000

Footprint: 4'x4'



	Seedling/Clone	Vegetative	Flowering
Hang Height	16"(40cm)	12"(30cm)	12"(30cm)
Dimmer Setting	25%	75%	100%
Intensity (PPFD) ($\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$)	130-450	350-1300	500-2000

Image: A visual guide illustrating the recommended hanging heights, dimmer settings, and corresponding PPFD values for the TS3000 across seedling, vegetative, and flowering stages.

TS 3000 PPFD MAP

Unlock the Full Potential of Your Plants
with Higher Root Penetration



Tested in a
4ftx4ft (120x120cm) Grow Tent

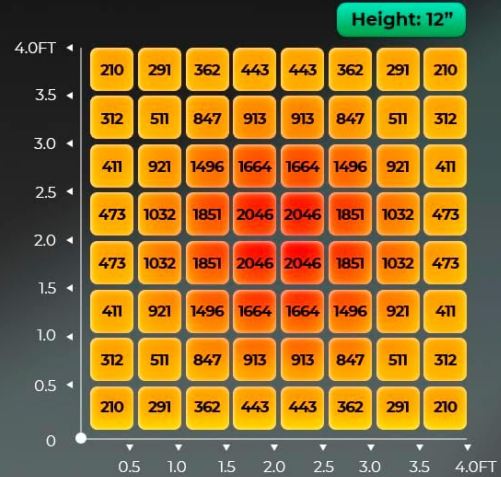


Image: A PPFD (Photosynthetic Photon Flux Density) map for the TS 3000, showing light intensity distribution at 12, 18, and 22 inches height within a 4x4ft grow tent.

MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your grow light.

- **Cleaning:** Periodically wipe the light fixture and reflector with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged before cleaning. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the power cord, hanging wires, and connections for any signs of wear or damage. Replace any damaged components immediately.
- **Ventilation:** Ensure adequate airflow around the light fixture to prevent heat buildup. The light features a new powder coating technology for enhanced heat dissipation, but proper ventilation is still important.

NEW POWDER COATING TECH

More powerful heat dissipation than other aluminum shell lights

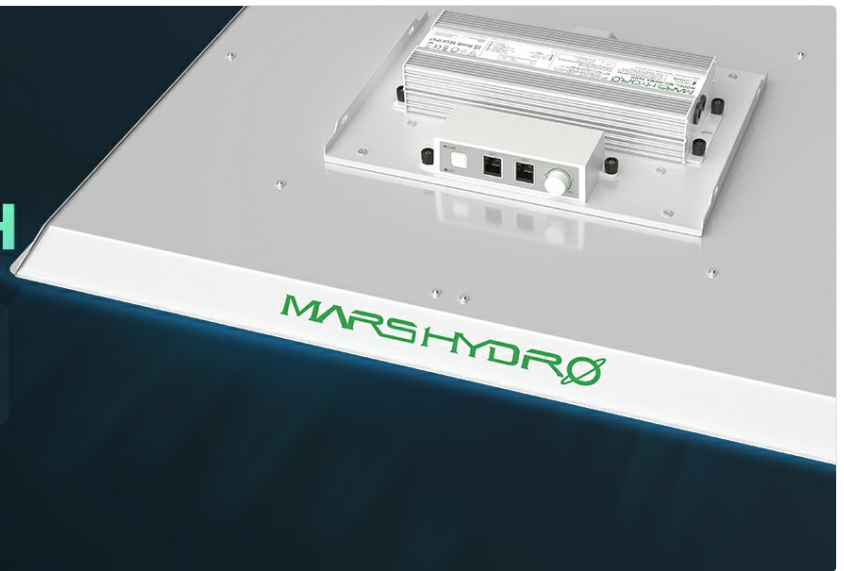


Image: A close-up view of the TS3000's new powder coating, illustrating its role in providing more powerful heat dissipation compared to other aluminum shell lights.

TROUBLESHOOTING

If you encounter issues with your MARS HYDRO TS 3000, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; loose connection; dimmer knob set to OFF.	Check power outlet and cord connections. Ensure dimmer knob is not set to OFF. Verify power source voltage.
Light intensity is too low/high.	Dimmer setting incorrect; incorrect hanging height.	Adjust the dimmer knob. Refer to the "Recommended Hanging Height and Dimmer Settings" table for optimal settings.
Uneven light distribution.	Improper hanging; obstruction.	Ensure the light is hung level and centered over the grow area. Remove any obstructions. The new diode layout is designed for uniform light.
Overheating.	Poor ventilation; ambient temperature too high.	Improve air circulation in the grow area. Ensure ambient temperature is within acceptable limits for LED grow lights.

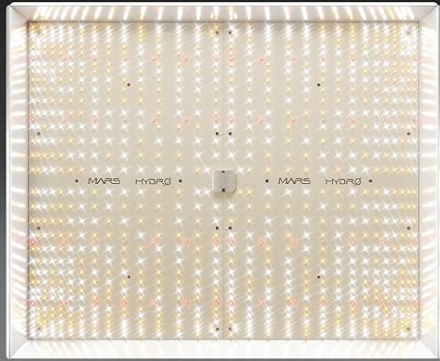
SPECIFICATIONS

Detailed technical specifications for the MARS HYDRO TS 3000 LED Grow Light:

Feature	Detail
Brand	MARS HYDRO
Model Number	Mars-TS-3000W-FBA
Size	4x4 420w
Product Dimensions	25.25"L x 22.8"W x 2.7"H

Feature	Detail
Item Weight	11.3 Pounds
Material	Aluminum
Power Source	Corded Electric
Voltage	220 Volts
Wattage	450 watts
Light Source Type	LED
Number of Light Sources	1016
Special Feature	Dimmable
Control Method	Remote (via external driver controls)
Brightness	74728 Lumen
Efficiency	High Efficiency
Water Resistance Level	Waterproof
Included Components	TS 3000W led grow light, Hanging kit, Rope Clip Hanger
PPF	1210 $\mu\text{mol/s}$
HPS/MH Replace	600W
Core Coverage	4 ft x 4 ft
Max Coverage	5 ft x 5 ft
PPE	2.7 $\mu\text{mol/J}$
Max Yield	2.4g/W
Spectrum	730-740nm Red IR / 3200-4200Knm / 5200-6800Knm (Full Spectrum)
UPC	686494419612
ASIN	B07VPF7KKR

MODEL:TS-3000



PPF: 1210umol/s

HPS/MH Replace: 600W

CORE Coverage: 4ft x 4ft

MAX Coverage: 5ft x 5ft

PPE: 2.7umol/j

Max Yield: 2.4g/W

Input Voltage: 100-277V

Spectrum: 660-665nm

730-740nm

3000-3200K

6000- -6500K

Image: A graphic representation of the TS-3000 model's key performance metrics and electrical specifications.

WARRANTY AND SUPPORT

MARS HYDRO products are designed for reliability and performance. For specific warranty details and technical support, please refer to the official MARS HYDRO website or contact their customer service directly.

Return Policy: This product is eligible for a 30-day refund/replacement policy from the date of purchase. Please retain your proof of purchase for any warranty or return claims.

For further assistance, visit the [MARS HYDRO Store on Amazon](#).

© 2024 MARS HYDRO. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.