



**TREEGERS GL650W Plus
LED Fixture**



TREEGERS GL650W Plus LED Fixture User Guide

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TREEGERS GL650W Plus LED Fixture



Specifications

- Fixture Model: Treegers GL650W+ LED Fixture
- Fixture Efficacy: Up to 3.1 $\mu\text{mol/J}$
- Full-Spectrum HybridF+ blend of diodes
- Modular design for easy servicing and maintenance
- IP Rating: IP66 (moisture and dust protection)

Product Usage Instructions

Assembly

Follow these steps for proper assembly of the Treegers GL650W+ LED Fixture:

1. Attach cable hangers to hanging eyelets and suspend the unit securely.
2. Attach orange driver support brackets to each end of the driver. Secure the driver to the frame assembly by clicking driver brackets onto the frame supports.
3. Connect the cables from the driver to the frame, ensuring a firm click and rotation for proper connection.

Operation

Operate the Treegers GL650W+ LED Fixture as follows:

1. Position the fixture with the dimming and power cable facing the correct side for attachment to the frame.
2. Ensure the driver is securely attached to the frame with minimal movement within the locating slots.
3. Connect the power cable for operation.

FAQ

Can I install the fixture myself?

We strongly recommend installation by a qualified professional to ensure safety and proper setup.

Introduction

Congratulations on your choice to cultivate with the Treegers GL650W+ LED Fixture.

To ensure a seamless experience, we encourage you to thoroughly review and understand this guide prior to operating this fixture. If for any reason, you are unsure about the installation process, we strongly recommend that installation is carried out by a qualified professional.

Product Description

The GL650W+ LED is a high powered, multi linear grow light with outstanding uniformity and a fixture efficacy of up to 3.1 $\mu\text{mol/J}$. It is also equipped with Treegers Full-Spectrum HybridF+ blend of diodes to ensure optimal plant health and hefty harvests. The modular design of the GL650W+ ensures swift servicing and main-tenance while its IP rating of IP66 will protect against moisture and dust.

What's in the Box?

- 6 x High Powered LED Bars (2 with optical lenses) a
- 1 x 650W High Grade Driver b
- 1 x Frame Kit (4 frame items) c
- 2 x Driver Support Brackets d
- 1 x Power Cable e
- 2 x Stainless Cable Hangers f
- 1 x User Guide g



Optional Treegers Accessories

- Treegers Precise T-Dimmer 0-10v (manual dimming) Product code: TPTD001
- Treegers 650W Driver Extension Kit (3m cable set to mount LED driver remotely) Product code: TDEK001
- Treegers Growcast Lighting Controller (automatic controller for up to 50 fixtures) Product code: TGC0001
- Treegers Fixture Link Cable 4m (use to connect one fixture to another when controlling or dimming multiple

fixtures) Product code: TFLK001

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Treegers Universal RJ-10V 3 pin Connection Cable 4m (use to connect alternative lighting controller that requires RJ connection) Product code: TUCC001



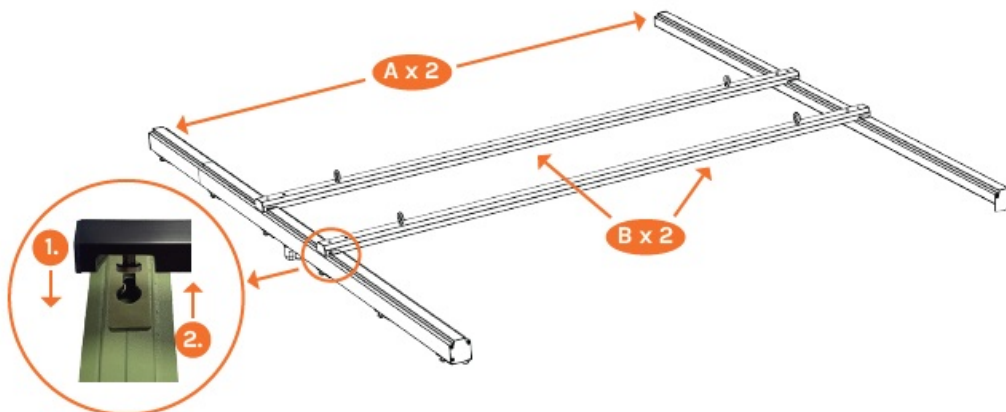
Safety and Warnings

- Ensure compliance with local laws and regulations regarding the use of this product.
- Ensure the lighting fixture is secured firmly in place prior to operation.
- Always disconnect power prior to moving the light fixture.
- After disconnecting power, allow the fixture to cool down before touching any part.
- Do not touch the light fixture when on, as some components may be hot.
- Do not touch the diodes with your hands, even when the unit is turned off.
- Do not look directly at the light source.

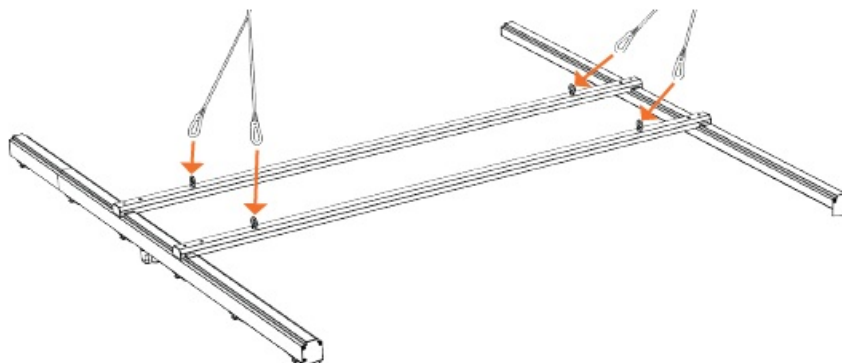
- Do not work underneath the lighting fixture while it is in operation.
- Do not immerse the light fixture in water.
- Do not attempt to service or repair the light fixture, including power cables.
- Maintain a distance of at least 5 cm from all surrounding objects to the light fixture.
- Do not use any abrasive cleaning products to clean the light fixture.
- Do not expose light fixtures to excessive heat sources.
- Do not use the LED fixture near flammable, explosive or reactive substances.
- Do not use sulphur vaporizers or water misters.
- If damage to any part of the light fixture occurs, disconnect and cease operation of the light fixture immediately.

Assembly and Operation

- Remove all items from their packaging and locate each item required for assembly.
- Thoroughly inspect each item for possible damage prior to assembly.
- Begin your assembly by attaching the black support frame pieces to both of the green frame sections. Locate the keyholes in the outer frame pieces (A) and align with the lugs in the frame support pieces (B). Push down (1.) and slide inwards (2.) to secure. Attach both ends of one frame support piece (B) first, to both outer frame pieces and then repeat to attach second frame support.



- Once the frame assembly is complete, attach each cable hanger to both hanging eyelets as pictured below and suspend the unit where required, ensuring the fixture is firmly attached.



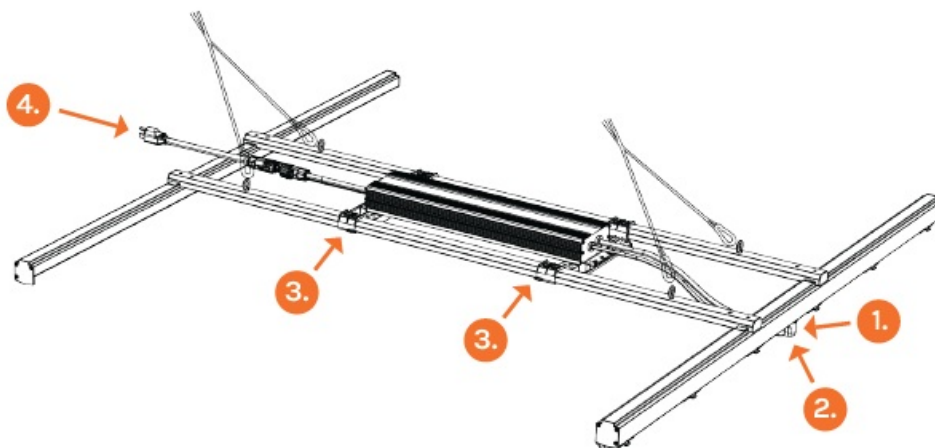
- Locate and attach each of the two orange driver support brackets to each end of the driver. When attaching the driver to the brackets, be sure to line up the three locating pins on the bracket to the three holes located on the mounting plate as shown below. Pay close attention to the position of the screw heads, ensuring they are resting within the recessed section of the bracket, also pictured below.



- Once the driver is secured to each of the driver brackets, attach the driver to frame assembly (as shown below), by clicking driver brackets onto the frame supports. Each bracket should be clipped into place, paying attention to the locating slots. Ensure the driver is positioned with the dimming (1.) and power cable (2.) facing to the correct side for attachment to the frame. Once in place, the driver will be secure with a little movement within the locating slots (3.)



- Connect the cables (1 & 2) that exit from one end of the driver to the frame. The sockets for these are located underneath the powered side of the GL650W+ frame. When inserted, the ringlock of each cable socket should click and rotate when pushed in firmly. You can also connect the power cable (4.) to the single socket that exits the other end of the driver. Do not turn the power on yet.



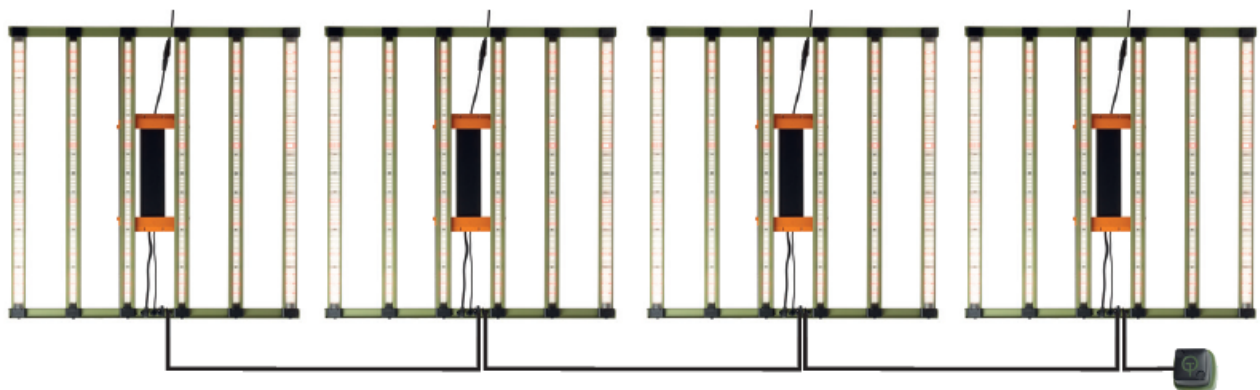
- Once the driver is attached and connected, you can now attach the LED bars. The GL650+ has two LED bars that are fitted with optical lenses. Keep these aside for fitment last. Each LED bar is fitted with a high strength magnet on either end to help secure them in place, with a hook on one end (1.) and a powered socket on the other (2.). Attach one bar at a time, starting with the centre bars and finish using the two bars with optical lenses on the outer edges of the fixture. Insert the hooked end of each bar into the locating hole on the non-powered side of the LEDs frame and then carefully push the other end of each bar into place by clicking into its socket housing on the powered side of the LED frame. Take note of the barbed spring tab (3.), ensuring secure attachment.



- If using a Treegers Precise T-Dimmer or Treegers Growcast, connect it to the signal input socket (1.), located on the underside of the GL650w+ frame.



- If operating multiple light fixtures and you are using the Treegers Growcast, connect each light using a Treegers Fixture Link Cable. Connect the Treegers Fixture Link Cable to the Signal Output socket of the first light that has the Treegers Growcast connected to it, then connect the other end of the Fixture Link Cable to the Signal Input socket of the second light. Repeat this step to connect the second light to the third light and so on. Up to 50 fixtures can be linked to one Growcast controller.



Cautions

- Ensure your power supply is safe and fit for purpose before connecting your GL650W+ grow light to your power supply.
- When hanging or mounting your GL650W+ light fixture, make sure it is firmly attached and secure before turning it on.

- Ensure the mounting system can support the weight of the light fixture before turning it on.
- Our GL650W+ fixture is designed with removable LED bars. All bars must be installed prior to operating. If one bar requires removal for servicing, we recommend replacing it as soon as practically possible, as prolonged use with missing bars is not recommended. If less light is required, we recommend installing a Treegers
- Precise T-Dimmer or Treegers Growcast to reduce the fixtures overall light output.

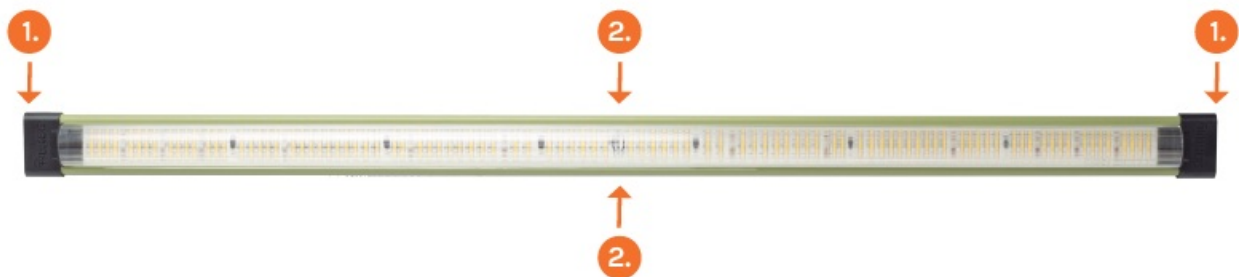
If all precautions have been taken, your LED can now be turned on.

For further guidance on how to get the most out of your new Treegers GL650W+ LED Fixture, explore our Grow Light Tactics [here](#).



Optical Lenses

The GL650W+ is fitted with two removable optical lenses. These lenses have been designed to narrow and intensify the dispersion of emitted light. They are used on the outer bars of our GL+ fixtures to increase uniformity across the fixtures footprint. If you are mounting multiple fixtures spaced closer than 50 cm apart, you may wish to remove the optical lenses to allow for a greater overlap of light from each fixture. To do this, simply remove the rubber plug on each end of the end of the bar (1.), then gently squeeze the base of the lens inwards (2.) to unclip and carefully pull free. Ensure care is taken to not cause unnecessary damage to the lens or resin coating of the diodes. The lens can be reinstalled if needed by reversing the removal method. If your LED fixtures are dismantled and reassembled, your lenses can be reinstalled on any GL+ LED bar, however we strongly recommend limiting their use to outer bars only.



Care and Maintenance

CAUTION: Always ensure the fixture has been disconnected from power and allowed to cool down before carrying out any cleaning or maintenance.

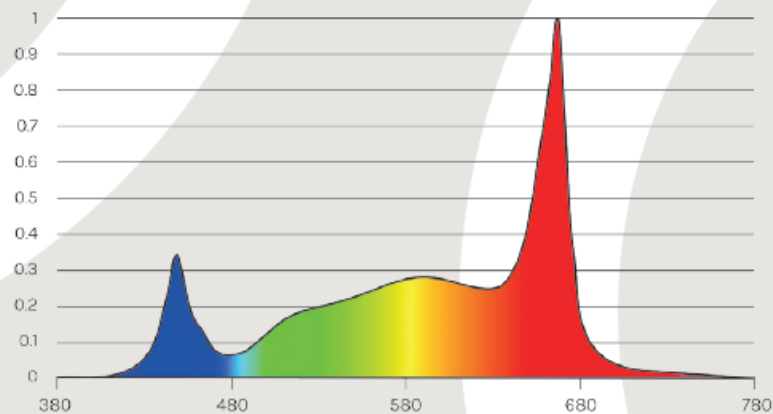
To ensure your new light continues to perform at its best, we recommend cleaning your fixture regularly with a soft damp cloth. Use extra caution when cleaning your LED bars as scrubbing too hard may cause damage to the silicone resin coating that protects the diodes. A can of compressed air can also be useful to blow dust from within cracks and crevices of the fixture.

Fixture Specifications

- Product Code: TGL0003
- EAN/GTIN: 9309001188054

- Power Consumption: 650W \pm 5%
- Light Output PPF: 2009 μ mol/s
- Fixture Efficacy: 3.1 μ mol/J
- Diodes Efficacy: Up to 4.35 μ mol/J
- Coverage Area: Minimum 1.2 \times 1.2m up to Maximum 1.5 \times 1.5 m
- Thermal Management: Passive Cooling
- Input Voltage: 120-277V, 50/60 Hz
- Ingress Protection: IP66
- Lifetime: +50 000Hrs
- Dimming: 0-10-20-30-40-50-60-70-80-90-100% (w/ Treegers Precise T Dimmer 0-10V)
- External Control: w/ Treegers Growcast or any Universal Controller
- Light Distribution: 120°
- Fixture Dimensions: 1090x1090x100 mm
- Fixture Weight: 11.35 Kg
- Carton Dimensions: 1170x353x157 mm
- Gross Weight: 12.95 Kg
- Certifications: CE, UKCA, RCM, RoHS, SAA
- Warranty: 5 Years
- Spectrum: Full-Spectrum HybridF+
- SQD Spectrum Graph:

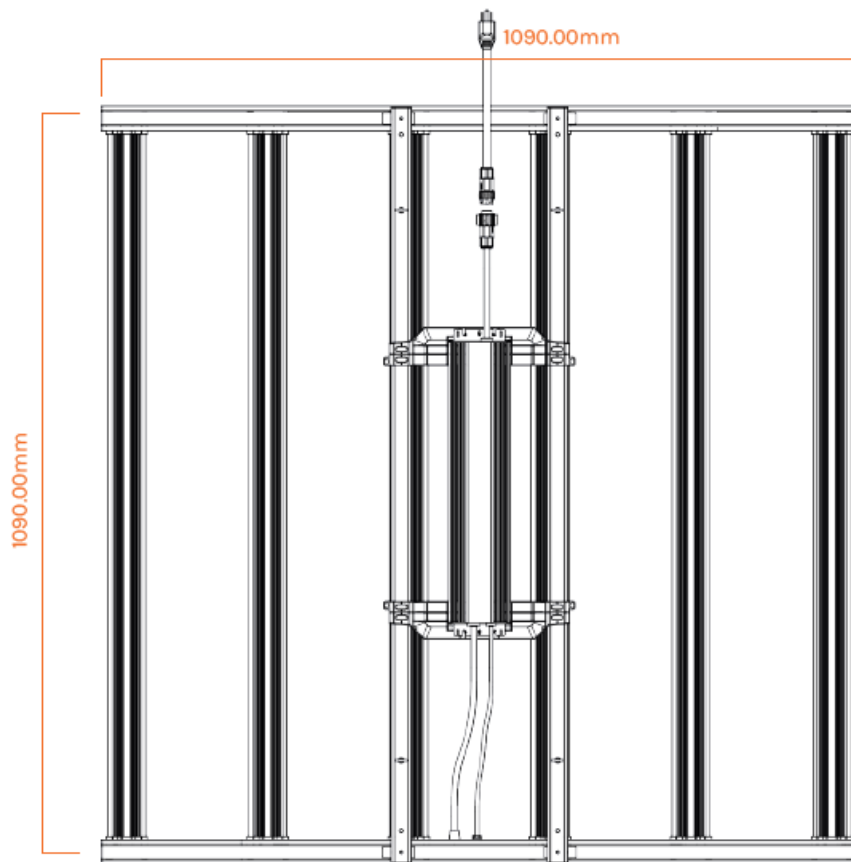
Full-Spectrum HybridF+ by TREEGERS



GL650W+ MAXIMUM INPUT CURRENT

INPUT VOLT	DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
120AC	100%	657.4W	5.90
230AC	100%	651.0W	3.44
240AC	100%	650.8W	3.36
277AC	100%	651.3W	2.68

Fixture Dimensions



Operating Conditions

Our GL LED fixtures have a dust and water ingress rating of IP66. This means they are dust tight and protected against high pressure 12.5mm water jets, however, our fixtures have been designed for indoor use only and should not be operated outdoors or in wet environments. Our GL fixtures will tolerate ambient temperatures of up to 45°C but we recommend operation within a range of between 20°C-30°C where possible, to maintain peak performance. Relative humidity should not exceed 90%.

Compliance

This product meets UK, EU, and AS/NZS electrical safety and electromagnetic compatibility standards. It is also RoHS compliant and adheres to WEEE directive obligations for sales in European countries.

Storage

When not in use, this product should be cleaned thoroughly before storing it in its original packaging and kept in a cool, dry location. Always thoroughly inspect for any damage prior to reassembly.

Disposal

Separate from household waste and choose authorised recycling facilities for correct disposal of this product. Alternatively, use authorised WEEE collection points or contact local waste authorities for disposal guidance.

Service and Warranty

We stand behind the quality of our products and offer a five year warranty on your GL6500W+ from date of purchase.

Please use the area below to record the place and date of purchase along with your fixtures serial number. (located on the underside of the fixtures frame) Please note that the LED driver and each LED bar has its own unique serial number for peace of mind and transparency.

- Place of purchase:
- Date of purchase:
- Serial number:

Please store this in a safe place for future reference

Warranty Coverage

The warranty covers defects in materials and workmanship under normal use, including malfunctions in the LED fixture, power cable or connectors.

Exclusions

The warranty does not cover damage resulting from improper installation or assembly, unauthorised modifications or repairs, accidents, misuse, negligence or any use of non-approved accessories. Our warranty does not cover damage to diodes caused by high sulphur environments. It is strongly recommended that care is taken when using airborne pesticides and fertilisers.

IMPORTANT: Exposure to high sulphur environments will void fixture warranty. Preventative measures must be taken to ensure lighting fixtures remain clean and are not exposed to any products containing sulphur, chlorine or bromide. Please contact support@treegers.com if you would like further information on how you can minimise the risk of diode vulcanisation due to high sulphur environments.

Warranty Claim Process

- If you experience any issues covered by the warranty, please follow these steps:
- Contact Customer Support: Reach out to our customer support team via email at support@treegers.com to initiate a warranty claim.
- Provide Proof of Purchase: Have your proof of purchase ready to validate the warranty period.
- Describe the Issue: Clearly describe the issue you are facing and follow any instructions provided by our support team.
- Return Process: If necessary, our support team will guide you through the return process. Do not return products without prior authorization.

Service and Repairs

For issues not covered by the warranty or if the warranty period has expired, when possible, we can offer a repair service. Contact our customer support team for information on service fees, shipping instructions, and any other details related to out-of-warranty repairs.

Customer Support

Our dedicated customer support team is available to assist you with any questions, concerns, or warranty claims.

Feel free to reach out at support@treegers.com

Thank you for choosing Treegers.

We are committed to providing you with an excellent growing experience.

Documents / Resources

	<p>TREEGERS GL650W Plus LED Fixture [pdf] User Guide GL650W Plus LED Fixture, GL650W Plus, LED Fixture, Fixture</p>
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References

- [🔗 Treegers | Tactical Grow Gear](#)
- [User Manual](#)

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