



720/960W LED

Thank you for purchasing a Maxibright Product.

To ensure the safe and efficient use, please take the time to carefully read these instructions before installation.

Maxibright products are intended for Horticultural use and not for General Lighting.

Package Contents

2 x 3 bar Maxibright VARIDRIVE 2 720/960 LED fixtures

1 x Maxibright VARIDRIVE 600W dimmable ballast

4 x Connector Locking Screws

2 x Hanging Slings

8 x Fixture Hanging Eyebolts

4 x Mounting Brackets for Ballast

4 x Brackets for ballast mounting

8 x Bracket fixing bolts

8 x Thumb nuts

8 x Ballast fixing bolts

8 x Hexagon Nut

1 x IEC C14 Plug to 2 x IEC C13 splitter lead

Safety Advice

- Working parameters: Temperature - 0°C - +40°C. Humidity - Maximum 95%
- Electricity can kill, so always use a Residual Current Breaker (RCB) with this product.
- Before doing anything with the unit, make sure that the power is disconnected.
- Keep the unit away from children, pets and water. Suitable for indoor use only.
- Never tamper with the unit as there are no user serviceable parts inside and this will void the guarantee.
- Only use the cable provided to connect the unit to the mains. Never tamper with or modify the cable.
- Replacement fuses must be of an identical type and rating to those supplied.
- Do not mount the unit directly onto, or near flammable material. Do not cover the unit.
- Never look into the unit when it is switched on.

Guarantee & Liability

- The Maxibright LED guarantee (terms & conditions apply), excludes tampering.
- In the unlikely event that you find fault with this product, please contact your supplier.

The manufacturer shall not be responsible for any damage caused by operation of the unit, be it incidental or consequential; or of any type; including, without limitation, damage or injury, caused to other products, machinery, or buildings. Nor will responsibility be accepted for loss of time or profit, loss of finished product, or for any inconvenience caused in any way whatsoever.



Manufactured and supplied by Highlight Horticulture Ltd

Installation

The fixture offers two primary configurations:

Single 6-Bar Fixture: Ideal for a 1.5 x 1.5m area.

Two Separate 3-Bar Fixtures: Suitable for expanding coverage by up to 25%.

Single 6-Bar Configuration:

- Align and Connect: Place the two 3-bar units side by side. Align the connector brackets with the slots on each unit.
- Secure the Connection: Insert the provided locking screws through the brackets and tighten to ensure a stable connection.

Using One Ballast (720W)

1. Connect the splitter lead to the power input sockets of both 3-bar units.
2. Attach the other end of the splitter lead to a single VARIDRIVE 600W electronic Ballast.
3. Set the ballast to the desired power level: 50% (250W), 75% (400W), 100% (600W), BOOST: 720W

Using 2 ballasts (960W)

1. Connect one ballast to each 3-bar fixture using the standard IEC power leads.
2. Ensure that each 3-bar fixture is powered independently by its own VARIDRIVE 600W electronic ballast.
3. **Set both ballasts to a maximum of 75% (400W) per ballast**, resulting in a total fixture power of 960W.

This setup increases total light output by at least 25% compared to using a single ballast.

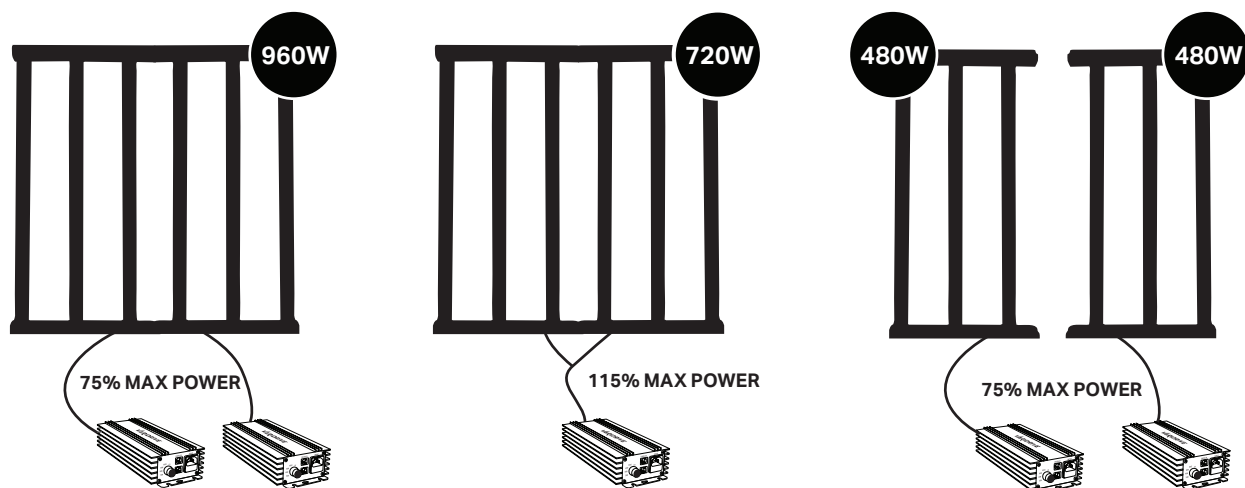
Do not set either ballast to 100% (600W) or BOOST mode in this configuration, as this may overload the system.

Two Separate 3-Bar Configurations:

No assembly is required; the units are ready for individual use.

Connect each 3-bar unit to its own Electronic Ballast.

Set each ballast to a maximum of 75% (400W) to avoid overloading



Installation

Hanging the Fixture(s)

1. Attach Eyebolts: Screw the provided eyebolts into the designated points on the fixture(s).
2. Connect Hanging Slings: Hook the hanging slings to the eyebolts.
3. Suspend the Fixture: Using adjustable rope ratchets (not included), hang the fixture at the desired height above the plant canopy.

Final Checks

Ensure all connections are secure. Verify that the fixtures are stable and level. Confirm that the ballast settings match the chosen configuration.

Power On

Once all checks are complete, connect the ballast(s) to the mains power supply and switch on the system.

Please Note: Always adhere to safety guidelines and consult this manual for installation instructions.

IMPORTANT !!

If a single ballast is used to power **one 3-bar fixture**, only 50% (250W) or 75% (400W) power settings should be selected. If the ballast is set to 100% (600W) or 115% (600W BOOST), the LED fixture will power on but then automatically dim and shut off to prevent damage.

If a 3-bar fixture is overloaded by mistakenly selecting 100% (600W) or 115% (600W BOOST), switch off the ballast immediately. Allow the fixture to cool for at least 10 minutes before attempting to restart. Do not re-ignite the fixture immediately, even at a lower power setting, as this may cause damage. Once the 10-minute reset period has passed, the fixture can be used as normal.

If a single ballast is used to power **two 3-bar fixtures** via the splitter lead, it is safe to operate at 50% (250W), 75% (400W), 100% (600W), or 115% (600W BOOST) power settings.

Remote Ballast Positioning:

The ballast can be installed remotely, using the cable provided.

Reducing heat – By positioning the ballast outside the grow space, heat buildup around the plants is reduced, improving environmental control

Easier Access and Control – The ballast can be adjusted or monitored without needing to enter the growing environment.

Optimised Operating Conditions – Placing the ballast in a well-ventilated area with stable temperature and humidity helps extend its lifespan and maintain efficiency.

IMPORTANT: Only connect to a VARIDRIVE 600W dimmable electronic ballast. Do not connect directly to mains power.



Technical Information

Light Source	LED
Maximum Light Output PPF – One Ballast	2071 $\mu\text{mol/s}$
Maximum Light Output PPF – Two Ballasts	2596 $\mu\text{mol/s}$
Maximum Chip Efficacy PPE	3.7 $\mu\text{mol/J}$

Performance Metric	Output
Efficacy PPE @ 115%	2.85 $\mu\text{mol/J}$
PPF @ 115% (One Ballast, 720 W)	2071 $\mu\text{mol/s}$
PPF @ 75% (Two Ballasts, 960 W)	2596 $\mu\text{mol/s}$
Efficacy PPE @ 100%	2.90 $\mu\text{mol/J}$
PPF @ 100% (One Ballast, 630 W)	1883 $\mu\text{mol/s}$
Efficacy PPE @ 75%	2.95 $\mu\text{mol/J}$
PPF @ 75% (One Ballast, 480 W)	1431 $\mu\text{mol/s}$
Efficacy PPE @ 50%	3.00 $\mu\text{mol/J}$
PPF @ 50% (One Ballast, 330 W)	1073 $\mu\text{mol/s}$

Light Source	LED
AC Input Power	Variable
AC Input Voltage	130–160 V
Input Frequency	40–100 kHz
AC Current Maximum – One Ballast	5 A
AC Current Maximum – Two Ballasts	3.5 A (each)
Max Power – One Ballast	720 W
Max Power – Two Ballasts	960 W
Max Ignition Distance from Ballast	10 M
Thermal Management	Passive
Lifetime	L90: >50,000 hr
IP Rating	IP65

Troubleshooting

If the unit fails to light:

- Turn off the supply.
- Check all connections. Turn the supply on.
- If the unit still fails to light check the fuse in the plug and replace if necessary. Turn the supply on.
- If the unit still fail to light please contact your supplier.

Disposal

This product should not be disposed of with regular household waste within the EU or UK. To minimise environmental impact and protect human health, please recycle it responsibly.



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