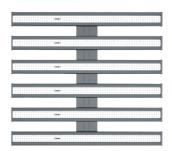


GLMX720 Series

720W LED Grow Lights



1 Introduction

This manual describes the installation and connection of the product and also describes how to use the product. Mounting and installing of the LED fixture may only be executed by certified service personnel. Please read and understand this manual completely before using the product. Only use the product as specified in this manual.

2 Product Information & Specifications

2.1 General Information

Product Name	GLMX720 Series 720W LED Grow Lights					
Manufacturer	Shenzhen VANQ Te	Shenzhen VANQ Technology Co., Ltd.				
Version	US EU UK AUS					
Plug Type	lg Type US plug 120-277V		UK plug 240V	AUS/NZS plug 240V		
Input Voltage	120-277VAC	100-230VAC	100-240VAC	100-240VAC		



US 5-15P



US 6-15P



US 7-15P



EU plug 230V



UK plug 240V



AUS/NZS plug 240V

• Note: Other types of plug are also available, please check with our sales engineers directly.

2.2 Specifications

		GLMX 720-E	GLMX720 -S	GLMX720 -P	GLMX720 - <mark>H</mark>
Power	n.	70011 50	500W 50	500W 5W	
Input Power Input Voltage(Standard)		720W ±5% 100-277VAC	720W ±5% 100-277VAC	720W ±5% 100-277VAC	720W ±5% 100-277VAC
	ltage(Optional)	277-480VAC	277-480VAC	277-480VAC	277-480VAC
Light Source Details					
	Model	+ C	+ SMD2835	+ SMD3030	+ C
LED Diodes - White	Supplier	OSRAM OSRAM	OSRAM OSRAM	SAMSUNG	OSRAM OSRAM
113 Bloads Hilling	Rated Max Power per LED Diode	0.82W ±5% (250mA x 3.3V)	0.82W ±5% (250mA x 3.3V)	0.58W ±5% (200mA x 2.9V)	0.82W ±5% (250mA x 3.3V)
	Actual Working Power per LED Diode	0.2W ±5%	0.2W ±5%	0.2W ±5%	0.14W ±5%
	LED Diodes Qty Per GLMX720 Series LED Fixture	1848pcs	1848pcs	1848pcs	2568pcs
	Model	+ + + + + + + + + + + + + + + + + + +	+ + + + S BLUE IR RED SMD3030	+ + + + + + + + + + + + + + + + + + +	+ ** IR RED SMD3030
LED Diodes	Supplier	A SANAN	OSRAM OSRAM	OSRAM OSRAM	OSRAM OSRAM
- Single Color	Rated Max Power per LED Diode	2.1W ±5% (700mA x 3V)	3W ±5% (1000mA x 3V)	3W ±5% (1000mA x 3V)	3W ±5% (1000mA x 3V)
	Actual Working Power per LED Diode	1W ±5%	1W ±5%	1W ±5%	0.7W ±5%
	LED Diodes Qty Per GLMX720 Series LED Fixture	336pcs	336pcs	336pcs	468pcs
	Diodes Number	2184pcs	2184pcs	2184pcs	3036pcs
	ED Diodes per LED Fixture ER OF LED FIXTURE)	2220W ±5%	2523W ±5% 2079W ±5%		3509W ±5%
	r LED Fixture / Rated Max odes per LED Fixture	32%	28%	34%	20%
Relative Radi	ation Intensity			Prompts to	the state of the s
PAR (Photosynthetic	ally Active Radiation)				
PPF(Photosynth	etic Photon Flux)	1940 μmol/s	1980 µmol/s	2050 μmol/s	2230 µmol/s
Efficacy (100%-50% power)					2230 μποι/3
	• •	2.7-2.8 μmol/J	2.75-2.9 μmol/J	2.85-3.0 µmol/J	3.1-3.3 µmol/J
Recommended Appli	• •	•	•	•	3.1-3.3 µmol/J
Recommended Appli Indoor Vert Recommender (Indoor Vert	cations ical Farming 1 Growing Area ical Farming) ng Height From Canopy	4ft x 4ft, 1.2m x 1.2m	4ft x 4ft, 1.2m x 1.2m	4ft x 4ft, 1.2m x 1.2m	3.1-3.3 µmol/J • 4ft x 4ft, 1.2m x 1.2m
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2.3 ORDERING CODE MATRIX FOR GLMX720 LIGHT FIXTURE

ORDERING CODE MATRIX FOR LIGHT FIXTURE						
FAMILY	MODEL	IN	IPUT VOLTAGE	PLUG TYPE		
GLMX	720 720 PRO 720 GEN 2 PRO 720 H		100-277VAC 277-480VAC only available with power cord	US6	NEMA 5-15P NEMA 6-15P NEMA L7-15P EU 230V UK 240V AUS/NZS 240V Pigtail	

NOMINAL ELECTRICAL AC INPUT

AC Voltage	120V	208V	230V	277V	347V	380V	400V	480V
AC Current	6.05A	3.47A	3.12A	2.58A	2.07A	1.9A	1.81A	1.50
AC Power	726W	723W	719W	716W	721W	725W	726W	722W
Power Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.97	0.97

• Note: The standard model comes with LED driver supporting only 100-277VAC input. 347V, 380V, 400V, 480V needs to be specially customized, please check with our sales engineers directly.

2.4 Compatible products and accessories

Product	Product Name	Part Number
Controller	0-10V dimming controller	MG-VD100
	Power cord with US plug 5-15P, 1.5m/5ft	MG-PC-US515
	Power cord with US plug 6-15P, 1.5m/5ft	MG-PC-US615
	Power cord with US plug L7-15P, 1.5m/5ft	MG-PC-USL715
Power cord	Power cord with EU plug 230V, 1.5m/5ft	MG-PC-EU230
	Power cord with UK plug 240V, 1.5m/5ft	MG-PC-UK240
	Power cord with AUS/NZS plug 240V, 1.5m/5ft	MG-PC-AU240
Dimming cables	T-shape daisy chain connection dimming cable, 2m/6.5ft	MG-DCC-T01
Light Hanger	1/8" Adjustable Ratchet Hangers 1.8m/6ft (Set of 2 - Holds 150 lbs/100Kg)	MG-RH-01
Light Hanger	Steel Wire Rope Hanger 30cm/1ft (Set of 4 - Holds 150 lbs/100Kg)	MG-WR-01

2.5 Environment

The product is intended to be used in indoor growing environments. The product can be used in wet environments.

The product may not be used outdoors. The GLMX720 light functions optimal when the max ambient temperature is between 20~40°C.

2.6 Legal

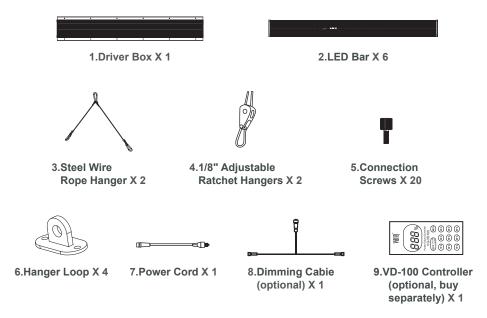
CE LVD approval according to: EN 60598-2-1&EN 62471&EN 62493&EN 62778

CE EMC approval according to: EN 55015&EN 61547&EN 61000-3-2/-3

ETL approval according to: UL8800, UL1598 Wet Location

3 Packing List

Please follow the content of the list and carefully check whether the purchased equipment and accessories are complete. If you find that the actual product does not match the list, or the product is damaged, please contact us immediately and provide photos or videos!



No.	Product Name	Model	Quantity
1	Driver Box	720W	1
2	LED Bar	120W	6
3	Steel Wire Rope Hanger	1.5m	2
4	1/8" Adjustable Ratchet Hangers	30cm/1ft	2
5	Screws	SUS304 M4-10	20
6	Hanger Loop	40*20*20mm	4
7	Power Cord	1.5m	1
8	Dimming Cable(optional)	T-Shape	1
9	VD-100 Controller(optional, buy separately)	0-10V Dimming	1

4 Safety Precautions & Warnings

Warning!

Carefully read the warnings below before using or working with the product!



DO NOT connect to live power until installation is complete.

Do not open or disassemble the LED light. Opening or modifying the LED light can be dangerous and will void the warranty.

⚠ Do not use the LED light when either the LED light or its power cord are damaged. Replace the power cord only with original certified cords.

Modifications to the cords can lead to unwanted electromagnetic effects, which makes the product not comply with legal requirements.

- ⚠ Do not expose the LED light to:
 - (ambient) temperatures outside the specified range;
 - dust and contamination;
 - direct sunlight during use or HID light that could heat up the ballast.

Always disconnect the LED light from mains before performing any maintenance.

- Always allow for a cool down period of at least 30 minutes before touching the LED bars. Touching the LED bars when the light is lit or immediately afterwards can result in severe burns!
- ⚠ Do not use the LED light near flammable, explosive or reactive substances. Do not use sulfur vaporizers or water misters.
- The installation and use of the LED light is the responsibility of the end user. Incorrect use or installation can lead to failure and damage to the LED light. Damage to the LED light and electronic circuitry as a result of incorrect installation and use revokes the warranty.

5 Installation

Warning!

A

Mounting and installing of the LED light may only be executed by certified service personnel, in accordance with the applicable local laws and regulations.

The installer is responsible for correct and safe installation.

⚠ Ensure the local cabling can support the voltage and current requirements of the LED light.

Avoid coiled cords and keep mains leads separated. This prevents electromagnetic interference.

Do not connect or disconnect the LED light under load.

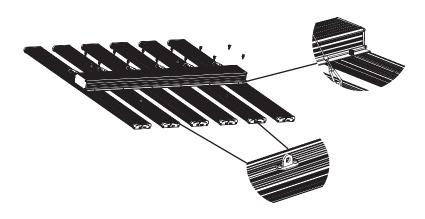
Mount the system to something that can hold the weight of the LED light.

5.1 Fixing the LED bars to driver box

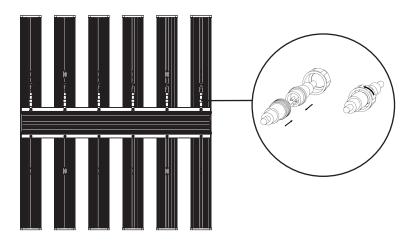
• Fix the Hanger Loops(No.6) to two LED bars(No.2) with the Screws(No.5)



- Fixing the LED bars(No.2) to the Driver Box(No.1) with the Screws(No.5)
- 1 Note: Make sure that the two LED bars with hanger loops are located at the 2nd and 5th position.



• Connecting the power cables of LED bars and Driver box



5.2 Hanging the LED light to mounting system



The suggested height from the plant canopy to the LED light is:

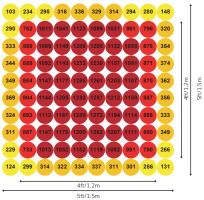
During vegetative stage, 1ft - 1.5ft/30cm - 45cm

During flowering stage, 0.6ft - 1ft/15cm - 30cm

Below is the PPFD map of 5ft x 5ft/1.5m x 1.5m at 3 different hanging heights.

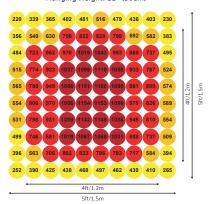
*Typical data of GLMX720 tested in a 5ftx5ft grow tent

Hanging Height: 6" (15cm)



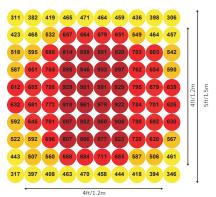
Average PPFD of 5ft x 5ft footprint: 795 µmol/m²/s Average PPFD of 4ft x 4ft footprint: 1076 µmol/m²/s

Hanging Height: 12" (30cm)



Average PPFD of 5ft x 5ft footprint: 735 µmol/m²/s Average PPFD of 4ft x 4ft footprint: 902 µmol/m²/s

Hanging Height: 18" (45cm)



5ft/1.5m

Average PPFD of 5ft x 5ft footprint: 651 µmol/m²/s

Average PPFD of 4ft x 4ft footprint: 751 µmol/m²/s

• PPFD map at 0.6ft/15cm

• PPFD map at 1ft/30cm

• PPFD map at 1.5ft/45cm

5.3 Connecting the LED light to the mains

Warning!



Make sure mains power is switched off.



Ensure the cord is not coiled and does not touch any hot surfaces.



⚠ Connect the cables according to local rules, safety regulations and electrical code.



🔼 Ensure external switching gear can cope with the inrush current of the LED fixture. Always use a double pole contactor suitable for switching a capacitive load. Never use household timers to switch the LED fixture!

6 Connecting LED Lights To A Controller

Warning!



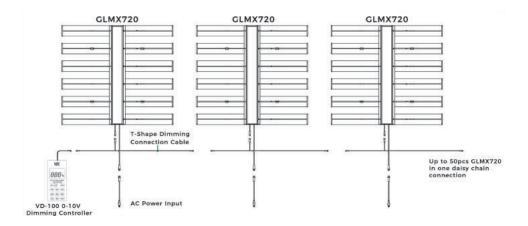
Do not connect or disconnect the controller with LED light under load.



Lensure the power cord and the controller cables do not touch any of the LED bars.

Using a daisy chain setup, a maximum of 50pcs LED lights can be connected to one controller. The controller can dim the LED light from 0 to 100%.

- Connect the dimming cable to the dimming port on the first LED light.
- · Use dimming cable (T-shape) to connect the dimming port of the following LED light.
- Repeat these steps to connect up to 50pcs LED lights.



7 Inspection, maintenance and repair

- Caution! Do not clean the LED fixture with detergents, abrasives or other aggressive substances.
 - Regularly check the LED fixture for dust or dirt buildup. Clean if necessary. Contamination may cause overheating and decreased performance. Clean the outside of the LED fixture using a dry or damp cloth.
 - Regularly check the cables of the LED fixture to ensure it is undamaged.

8 Storage and disposal

- Store the LED fixture in a dry and clean environment, with an ambient temperature of-20~85° C.
- The product must not be discarded as unsorted municipal waste, but must be collected separately for the purpose of treatment, recovery and environmentally sound disposal.

9 Warranty service

VANQ technology warrants the mechanical and electronic components of their product to be free of defects in material and workmanship if used under normal operating conditions for a period of five (5) years from the original date of purchase. If the product shows any defects within this period and that defect is not due to user error or improper use, VANQ technology shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. In case VANQ technology decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e. five (5) years from the date of purchase of the original product. For service, return the GLMX720 light to your shop with the original sales receipt.

LED Grow Lights Manual