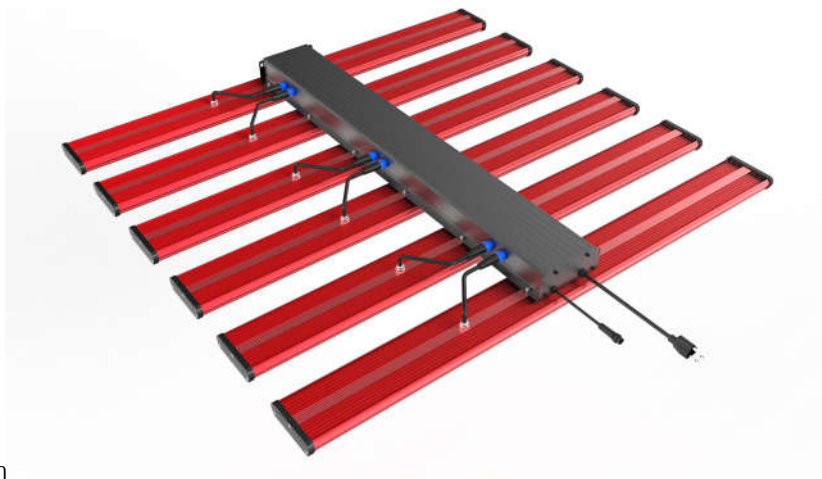# GLMX Series GLMX1000C 1000W LED Grow Light

VANQ®

1 Introduction

Thank you for purchasing the GLMX1000C. The GLMX1000C is a 1000W horticultural LED light. It drives six LED bars each of which is 165W. The GLMX1000C is intended to be used in indoor grow rooms.
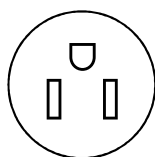
Other types of plug are also available, please check with our sales engineers directly.
This manual describes the installation and connection of the product and also describes how to use the product. Mounting and installing of the GLMX1000C may only be executed by certified service personnel. Please read and understand this manual completely before using the product. Only use the product as specified in this manual.
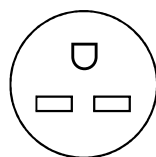
2 Product Information & Specifications

2.1 General Information

Product Name	GLMX1000C 1000W LED Grow Light			
Manufacturer	Shenzhen VANQ Technology Co., Ltd.			
Version	US	EU	UK	AUS
Plug Type	US plug 120-277V	EU plug 230V	UK plug 240V	AUS/NZS plug 240V
Input Voltage	120-277VAC	100-230VAC	100-240VAC	100-240VAC
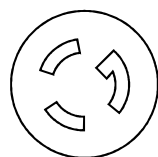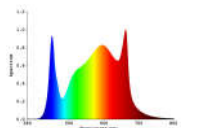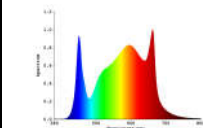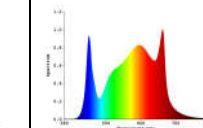
US 5-15P   US 6-15P   US L7-15P   EU plug 230V   UK plug 240V   AUS/NZS plug 240V

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

2.2 Specifications

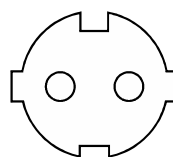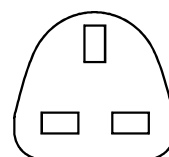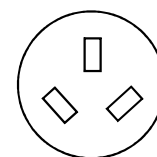|		GLMX 1000C-E	GLMX10000C-S	GLMX1000C-P
Power				
	InputPower	1000W ±10%	1000W ±10%	1000W ±10%
	InputVoltage(Standard)	100-277VAC	100-277VAC	100-277VAC
	HighInputVoltage(Optional)	277-480VAC	277-480VAC	277-480VAC
Light Source Details				
LED Diodes - White	Model	SMD2835	SMD2835	SMD3030
	Supplier	SAMSUNG	OSRAM	SAMSUNG
	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)
	Actual Working Power per LED Diode	0.2W ±5%	0.2W ±5%	0.2W ±5%
	LED Diodes Qty Per GLMX1000C Series LED Fixture	3840pcs	3840pcs	3840pcs
LED Diodes - Single Color	Model	RED SMD3030	RED SMD3030	RED SMD3030
	Supplier	OSRAM	OSRAM	OSRAM
	Rated Max Power per LED Diode	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%
	LED Diodes Qty Per GLMX1000C Series LED Fixture	96pcs	96pcs	96pcs
Total LED Diodes Number		3936pcs	3936pcs	3936pcs
Rated Max Power of all LED Diodes per LED Fixture (NOT ACTUAL POWER OF LED FIXTURE)		3437W ±5%	3437W ±5%	2577W ±5%
Actual Working Power per LED Fixture / Rated Max Power of all LED Diodes per LED Fixture		29%	29%	38%
Spectrum				
Relative Radiation Intensity				
PAR (Photosynthetically Active Radiation)				
PPF(Photosynthetic Photon Flux)		2700 µmol/s	2750 µmol/s	2850 µmol/s
Efficacy (100%-50% power)		2.7-2.8 µmol/J	2.75-2.9 µmol/J	2.85-3.0 µmol/J
Recommended Applications				
Indoor Vertical Farming		●	●	●
Recommended Growing Area (Indoor Vertical Farming)		4ft x 4ft, 1.2m x 1.2m	4ft x 4ft, 1.2m x 1.2m	4ft x 4ft, 1.2m x 1.2m
Recommended Hanging Height From Canopy (Indoor Vertical Farming)		0.5-1.5ft, 15cm-45cm	0.5-1.5ft, 15cm-45cm	0.5-1.5ft, 15cm-45cm
Indoor Horizontal Farming		◗	◗	◗
Recommended Growing Area (Indoor Horizontal Farming)		4.5ft x 4.5ft 1.35m x 1.35m	4.5ft x 4.5ft 1.35m x 1.35m	4.5ft x 4.5ft 1.35m x 1.35m
Recommended Hanging Height From Canopy (Indoor Horizontal Farming)		1.5ft-2ft, 45cm-60cm	1.5ft-2ft, 45cm-60cm	1.5ft-2ft, 45cm-60cm
Physical				
LED Fixture Weight		16kg, 35.3 lbs		
Dimensions		111cm L x 101cm W x 8.4cm H, 43.7in L x 39.7in W x 3.3in H		
Working Temperature		-20°C ~ 40°C | -4°F ~ 104°F		
Dimming		0-10V		
Waterproof		Yes		

2.3 Technical specifications

Light Source	LED
AC Input Power	1000W @ 240VAC
AC Input Voltage	120-277V AC, 347-480V AC, 50/60Hz
Spectrum	Full Spectrum
Light Output PPF	2700 μmol/s (GLMX 1000C-E)
Efficiency	2.7 μmol/J (GLMX 1000C-E)
Product weight	16 kg
Dimensions	111cm L x 101cm W x 8.4cm H, 43.7in L x 39.7in W x 3.3in H
Working temperature	-20°C ~ 40°C | -4°F ~ 104°F
Light Distribution	120°
Dimming	0-10V
Waterproof	Yes

ORDERING CODE MATRIX FOR GLMX1000C LIGHT FIXTURE

ORDERING CODE MATRIX FOR LIGHT FIXTURE				
FAMILY	MODEL	INPUT VOLTAGE	LED	PLUG TYPE
GLMX	1000C	S 100-277VAC P-S 277-480VAC * P-S is only available with pigtail power cord	SO Samsung281B+OSRAM OO OSRAM+OSRAM BO Samsung301B+OSRAM	US5 NEMA 5-15P US6 NEMA 6-15P USL7 NEMA L7-15P EU EU 230V UK UK 240V AUS AUS/NZS 240V P Pigtail

NOMINAL ELECTRICAL AC INPUT

AC Voltage	120V	208V	230V	277V	347V	380V	400V	480V
AC Current	8.42A	4.83A	4.35A	3.57A	2.88A	2.64A	2.53A	2.1A
AC Power	1010W	1006W	1000W	990W	1001W	1005W	1012W	1008W
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	VQ-VD100
Power cord	Power cord with US plug 5-15P, 1.5m/5ft	VQ-PC-US515
	Power cord with US plug 6-15P, 1.5m/5ft	VQ-PC-US615
	Power cord with US plug L7-15P, 1.5m/5ft	VQ-PC-USL715
	Power cord with EU plug 230V, 1.5m/5ft	VQ-PC-EU230
	Power cord with UK plug 240V, 1.5m/5ft	VQ-PC-UK240
	Power cord with AUS/NZS plug 240V, 1.5m/5ft	VQ-PC-AU240
Dimming cables	T-shape daisy chain connection dimming cable, 2m/6.5ft	VQ-DCC-T01
Light Hanger	1/8″ Adjustable Ratchet Hangers 1.8m/6ft (Set of 2 - Holds 150 lbs/100Kg)	VQ-RH-01
	Steel Wire Rope Hanger 30cm/1ft (Set of 4 - Holds 150 lbs/100Kg)	VQ-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 GLMX1000C light functions optimal when the max ambient temperature is between 20~40° C.

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!

1. Driver Box X 1

2. LED Bar X 6

3. Steel Wire Rope Hanger X 2

4. 1/8″ Adjustable Ratchet Hangers X 2

5. Connection Screws X 12
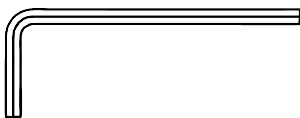
6. Hex key X 1
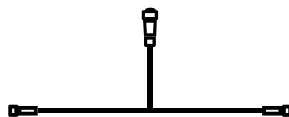
7. Dimming Cable (optional) X 1

8. VD-100 Controller (optional, buy separately) X 1

No.	Product Name	Model	Quantity
1	Driver Box	1000W	1
2	LED Bar	165W	6
3	Steel Wire Rope Hanger	20cm/1ft	2
4	1/8″ Adjustable Ratchet Hangers	1.8m	2
5	Screws	SUS304 M4-8	12
6	Dimming Cable(optional)	T-Shape	1
7	VD-100 Controller(optional, buy separately)	0-10V Dimming	1
8	Hex key	M3	1

4 Safety Precautions & Warnings

Warning!

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

⚠ Always adhere to the local rules and regulations when installing or using the LED light.

⚠ 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!

⚠ 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

- Fixing the LED bars(No.2) to the Driver Box(No.1) with the Screws(No.5)
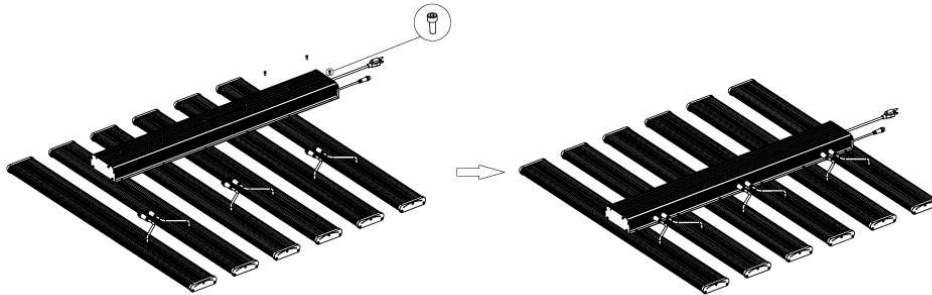
- Connecting the power cables of LED bars and Driver box
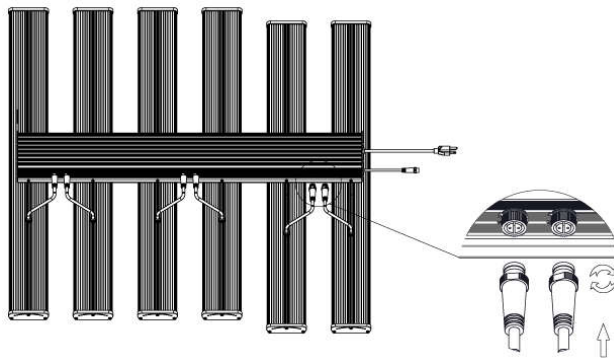
5.2 Hanging the LED light to mounting system


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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 GLMX1000C tested in a 5ftx5ft grow tent
```

VQ-GLMX1000C-S-SO15CM

151	277	300	400	391	419	399	298	267	148
234	787	1042	1169	1148	1104	1171	1049	772	255
283	1393	1680	1805	1847	1927	1817	1675	1390	271
269	1048	1392	1578	1653	1689	1532	1361	994	267
237	1005	1508	1736	1833	1842	1695	1505	995	225
233	1081	1586	1790	1894	1920	1744	1571	1021	226
233	1231	1695	1866	1984	1990	1826	1650	1185	232
242	1246	1742	1996	2027	2059	1860	1696	1062	237
192	718	1162	1278	1506	1183	1177	1125	705	185
133	263	291	396	406	390	395	293	263	130

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-OO15CM

161	267	357	390	404	320	311	259	232	152
213	750	1039	994	1110	1263	1192	1055	648	217
247	1288	1630	1654	1717	2033	1847	1704	1052	229
234	1070	1383	1469	1593	1774	1633	1400	870	222
261	1035	1527	1619	1763	1920	1772	1515	906	247
226	1175	1606	1719	1832	2020	1793	1572	936	233
223	1154	1744	1805	1910	2156	1920	1656	1062	232
209	1135	1774	1788	1949	2191	1958	1657	1030	229
217	808	1065	1246	1293	1274	1374	1093	612	218
142	281	242	311	346	350	372	348	227	141

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-BO15CM

182	286	383	417	430	473	444	374	271	175
221	828	1135	1171	1325	1346	1373	1253	886	217
274	1432	1838	1983	2179	2250	2058	1908	1288	251
230	995	1525	1730	1861	1902	1745	1533	910	205
219	1080	1644	1916	2034	2054	1861	1660	1038	238
233	1040	1715	1966	2077	2101	1883	1729	1079	227
245	1040	1801	2104	2237	2213	1995	1803	1074	227
242	1008	1878	2157	2272	2303	2174	1853	1224	221
218	577	1266	1409	1409	1365	1383	1238	827	225
183	281	381	437	438	445	434	362	286	177

59″(1.5m) × 59″(1.5m)

- PPFD map at 0.5ft/15cm

VQ-GLMX1000C-S-SO30CM

317	413	510	584	603	639	549	495	414	315
413	664	857	912	948	937	987	891	602	405
522	937	1236	1371	1390	1381	1387	1210	842	514
548	919	1277	1441	1495	1489	1421	1232	866	542
495	930	1305	1482	1546	1554	1481	1310	893	479
509	969	1370	1553	1613	1625	1559	1351	935	509
531	1010	1384	1583	1645	1646	1585	1391	995	521
518	872	1319	1506	1551	1548	1491	1316	899	503
390	642	1007	1094	1087	1107	1121	998	686	395
308	383	589	663	658	639	598	546	417	312

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-OO30CM

314	396	557	576	625	607	529	545	390	311
395	631	836	902	973	1081	1030	843	622	379
531	904	1156	1290	1353	1421	1406	1220	841	527
516	926	1242	1379	1471	1533	1461	1256	863	553
497	926	1300	1443	1522	1586	1524	1321	924	515
517	996	1387	1516	1595	1660	1581	1381	931	515
513	977	1448	1550	1629	1696	1614	1398	946	505
507	917	1333	1464	1504	1579	1473	1301	918	464
402	700	915	1043	1091	1105	1056	975	695	399
326	378	524	549	626	583	600	576	417	320

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-BO30CM

338	434	565	692	683	708	609	527	487	329
455	697	922	1045	1063	1109	1128	966	672	423
579	939	1312	1465	1513	1533	1532	1301	962	586
583	997	1346	1573	1648	1641	1576	1375	929	591
556	992	1424	1609	1696	1694	1639	1445	1059	548
570	1054	1447	1675	1744	1755	1691	1515	1042	556
582	1041	1515	1717	1785	1789	1724	1524	1061	571
525	947	1391	1613	1683	1678	1632	1443	1003	512
432	749	1003	1178	1239	1222	1210	1030	752	420
329	453	588	701	709	742	659	599	460	335

59″(1.5m) × 59″(1.5m)

- PPFD map at 1ft/30cm

VQ-GLMX1000C-S-SO45CM

392	468	556	633	635	621	587	503	416	399
477	589	727	774	802	895	826	706	570	451
602	761	922	1037	1063	1052	1021	926	740	606
613	808	1026	1170	1221	1203	1167	1009	815	629
586	834	1077	1236	1300	1299	1231	1090	832	614
606	861	1104	1274	1340	1340	1274	1112	879	636
613	881	1120	1269	1338	1328	1259	1107	870	654
568	818	1037	1176	1213	1222	1163	1009	810	621
499	651	842	940	993	966	955	834	685	514
403	521	631	670	715	683	675	621	527	406

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-OO45CM

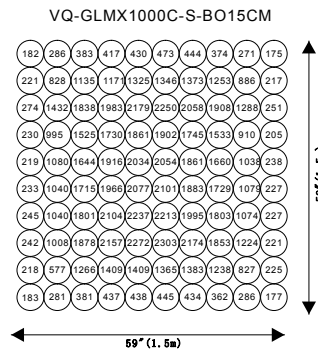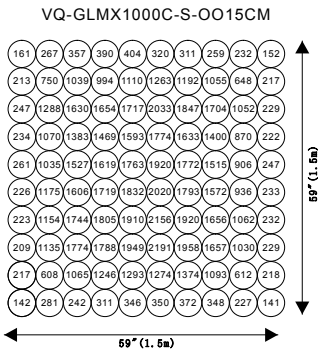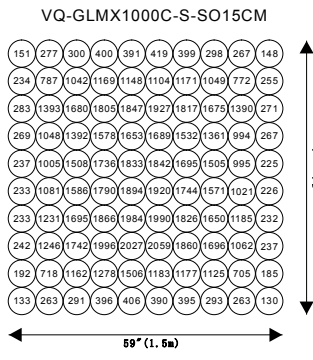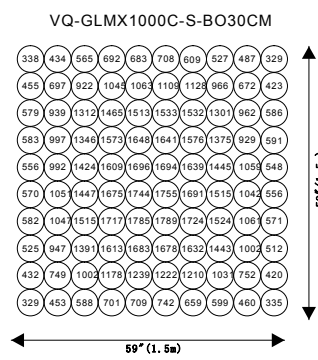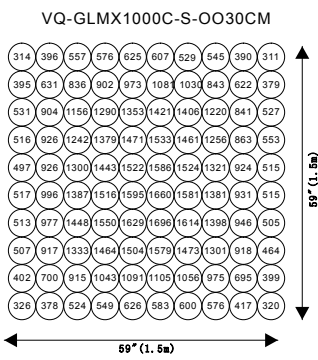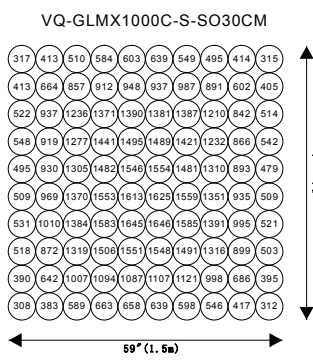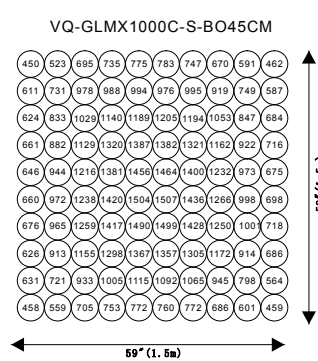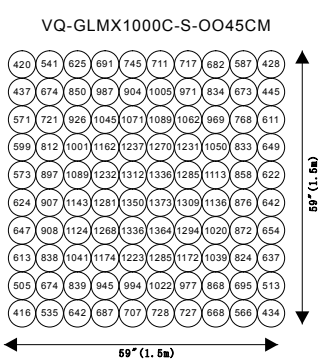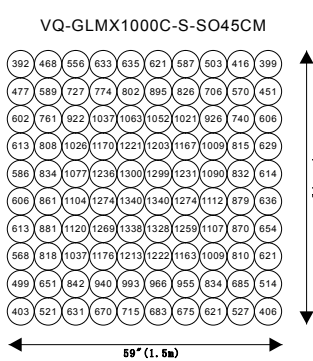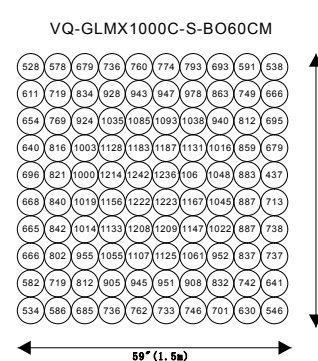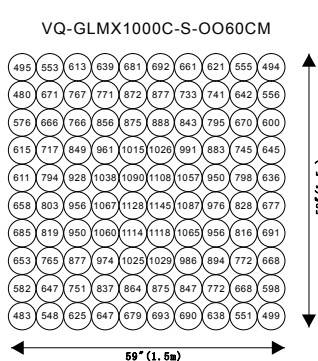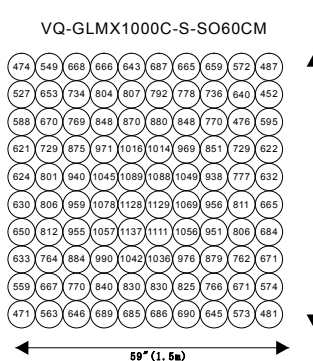| 420	541	625	691	745	711	717	682	587	428
437	674	850	987	904	1005	971	834	673	445
571	721	926	1045	1071	1089	1062	969	768	611
599	812	1001	1162	1237	1270	1231	1050	833	649
573	897	1089	1232	1312	1336	1285	1113	858	622
624	907	1143	1281	1350	1373	1309	1136	876	642
647	908	1124	1268	1336	1364	1294	1020	872	654
613	838	1041	1174	1223	1285	1172	1039	824	637
505	674	839	945	994	1022	977	868	695	513
416	535	642	687	707	728	727	668	566	434

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-BO45CM

450	523	695	735	775	783	747	670	591	462
611	731	978	988	994	976	995	919	749	587
624	833	1029	1140	1189	1205	1194	1053	847	684
661	882	1129	1320	1387	1382	1321	1162	922	716
646	944	1216	1381	1456	1464	1400	1232	973	675
660	972	1238	1420	1504	1507	1436	1266	998	698
676	965	1259	1417	1490	1499	1428	1250	1007	718
626	913	1155	1298	1367	1357	1305	1172	914	686
631	721	933	1005	1115	1092	1065	945	798	564
458	559	705	753	772	760	772	686	601	459

59″(1.5m) × 59″(1.5m)

- PPFD map at 1.5ft/45cm

VQ-GLMX1000C-S-SO60CM

474	549	668	666	643	687	665	659	572	487
527	653	734	804	807	792	778	736	640	452
588	670	769	848	870	880	848	770	476	595
621	729	875	971	1016	1014	969	851	729	622
624	801	940	1045	1089	1088	1049	938	777	632
630	806	959	1078	1128	1129	1069	956	811	665
650	812	955	1057	1137	1111	1056	951	806	684
633	764	884	990	1042	1036	976	879	762	671
559	667	770	840	830	830	825	766	671	574
471	563	646	689	685	686	690	645	573	481

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-OO60CM

495	553	613	639	681	692	661	621	555	494
480	671	767	771	872	877	733	741	642	556
576	666	766	856	875	888	843	795	670	600
615	717	849	961	1015	1026	991	883	745	645
611	794	928	1038	1090	1108	1057	950	798	636
658	803	956	1067	1128	1145	1087	976	828	677
685	819	950	1060	1114	1118	1065	956	816	691
653	765	877	974	1025	1029	986	894	772	668
582	647	751	837	864	875	847	772	668	598
483	548	625	647	679	693	690	638	551	499

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-BO60CM

528	578	679	736	760	774	793	693	591	538
611	719	834	928	943	947	978	863	749	666
654	769	924	1035	1085	1093	1038	940	812	695
640	816	1003	1128	1183	1187	1131	1016	859	669
696	821	1000	1214	1242	1236	1061	1048	883	437
668	840	1019	1156	1222	1223	1167	1045	887	713
665	842	1014	1133	1208	1209	1147	1022	887	738
666	802	955	1055	1107	1125	1061	1032	737	
582	719	812	905	945	951	908	832	742	641
534	586	685	736	762	733	746	701	630	546

59″(1.5m) × 59″(1.5m)

- PPFD map at 2ft/60cm

VQ-GLMX1000C-S-SO76CM

456	507	559	598	615	615	646	559	516	470
557	598	671	751	752	758	767	674	608	565
589	662	732	809	851	833	812	741	657	595
602	691	791	856	907	907	869	795	689	582
594	716	815	899	944	944	898	821	719	623
641	718	812	894	936	932	888	811	719	655
630	703	771	848	884	882	844	768	689	653
551	627	711	761	781	793	766	702	636	601
555	562	628	657	659	656	654	633	571	537
487	483	513	532	551	567	526	476	478	463

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-OO76CM

503	543	612	645	678	669	626	570	503	491
568	600	719	762	794	786	742	690	630	563
575	661	736	805	849	857	837	774	684	612
578	674	771	854	912	928	897	828	726	613
569	699	800	898	949	964	927	851	752	653
652	712	813	902	940	953	916	837	751	682
632	688	790	850	896	894	862	801	711	693
593	623	713	771	794	804	782	719	654	623
565	559	610	653	676	683	691	663	586	552
500	514	521	539	566	562	538	512	498	494

59″(1.5m) × 59″(1.5m)

VQ-GLMX1000C-S-BO76CM

512	548	613	652	670	683	708	631	557	504
595	662	731	786	794	807	777	752	689	628
625	711	800	877	917	920	871	810	727	665
632	754	858	948	989	998	959	886	767	642
640	779	890	983	1029	1031	998	915	806	698
687	777	891	984	1022	1029	988	904	802	737
673	755	863	937	976	983	937	861	778	748
602	683	779	846	878	873	858	785	707	684
521	605	689	725	727	727	738	708	634	592
504	578	553	579	617	618	583	529	568	519

59″(1.5m) × 59″(1.5m)

- PPFD map at 2.5ft/76cm

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!
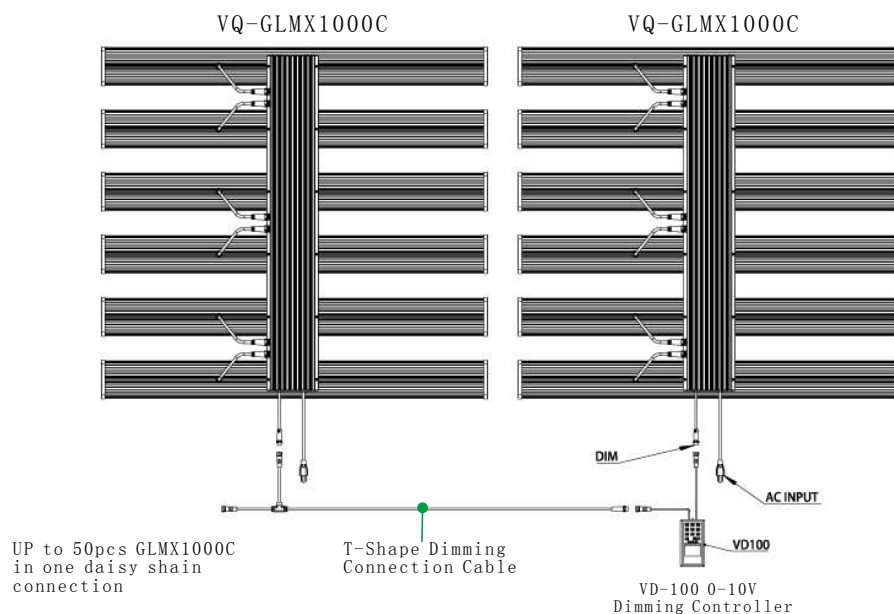
6 Connecting LED Lights To A Controller

Warning!

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

⚠️ Ensure the power cord and the controller cables do not touch any of the LED bars.
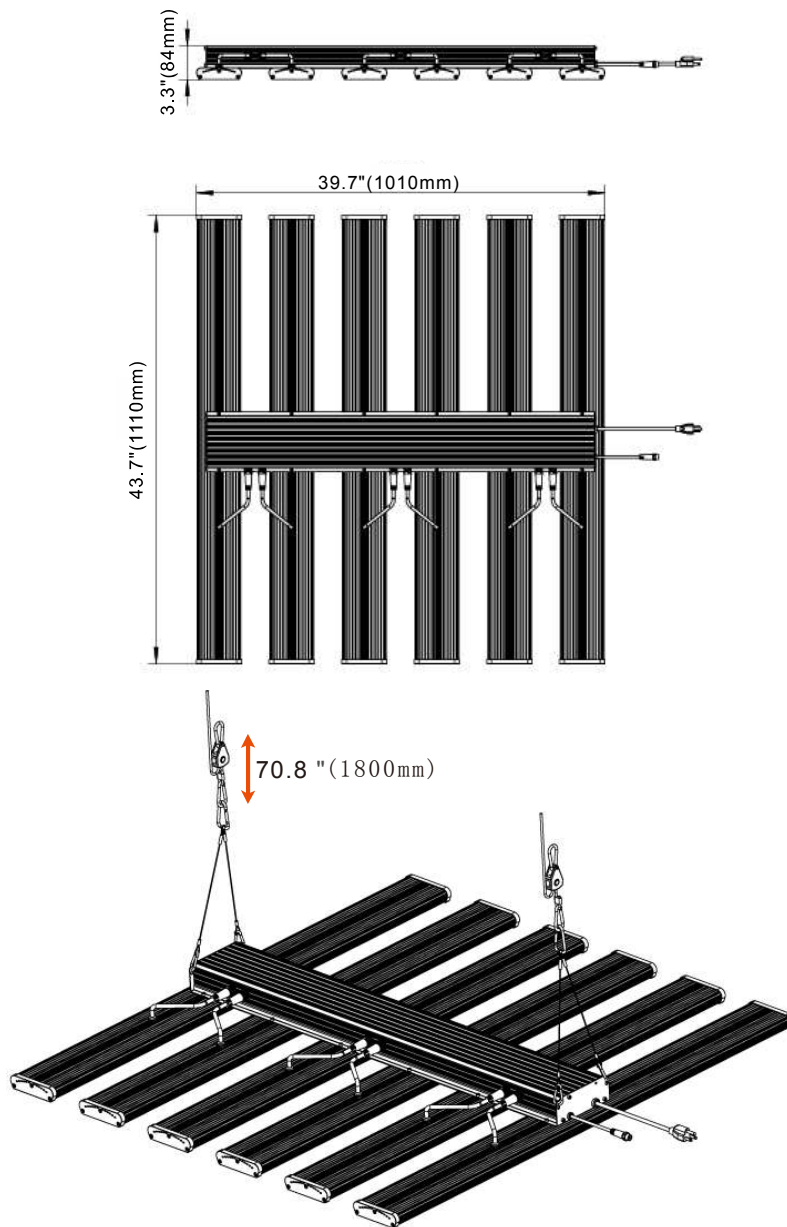
Using a daisy chain setup, a maximum of 50pcs LED lights can be connected to one controller. The controller can dim the LED light from 0 to 100%.
- Connect the dimming cable to the dimming port on the first LED light.
- Use dimming cable (T-shape) to connect the dimming port of the following LED light.
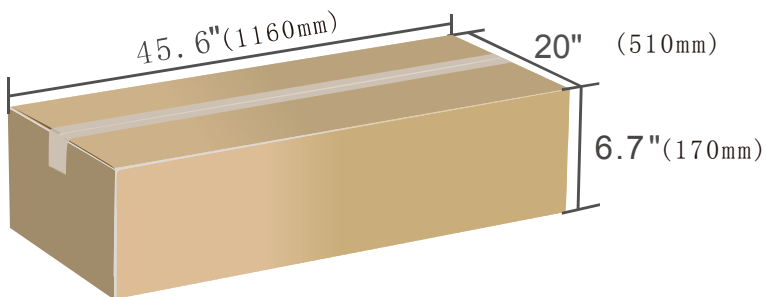- Repeat these steps to connect up to 50pcs LED lights.

VQ-GLMX1000C   VQ-GLMX1000C

DIM

AC INPUT

VD100

UP to 50pcs GLMX1000C
in one daisy shain
connection

T-Shape Dimming
Connection Cable

VD-100 0-10V
Dimming Controller

7 Size & Packaging:

7 .1 Size

3.3"(84mm)

39.7"(1010mm)

43.7"(1110mm)

70.8 "(1800mm)

7.2 Packaging:

45. 6"(1160mm)

20"　(510mm)

6.7"(170mm)

Net Weight:46.3lb (21 kg)

Packaging:
1pcs/carton

Gross Weight:
21kg 46.3lbs

Size:
45.6in L x 20in W x 6.7in H
1160mm L x 510mm W x 170mm H

Packaging material
plastic+foam+carton

8 Inspection, maintenance and repair

❗ Caution! Do not clean the LED fixture with detergents, abrasives or other aggress
• 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.

9 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.

10 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 GLMX1000C light to your shop with the original sales receipt.