



VENUS II SERIES

ALL IN TWO SOLAR LIGHT

INTRODUCTION

The FGE-Venus II Series All-in-Two Solar Light integrates high-efficiency solar panels, a lithium battery, LED module, and intelligent controller into a compact, streamlined design. It provides powerful, autonomous lighting for streets, pathways, parks, and parking areas without external wiring or grid power.

Equipped with high-efficacy LED chips and intelligent light and motion sensors, Venus II delivers bright, uniform illumination with adaptive dimming to optimize energy usage. The monocrystalline solar panel ensures fast charging and excellent energy conversion, while the lithium iron phosphate battery offers long cycle life and reliable performance.

Its die-cast aluminum housing with IP65 protection guarantees durability against rain, dust, and heat. Easy to install and maintenance-free, the Venus II is an ideal eco-friendly lighting solution for off-grid and sustainable outdoor applications.

NOM **CE** **RoHS** **IP65**

LM-79 **LM-80** **TM-21** **ISTMT** **IEC**



30W 40W



60W 80W 100W

FEATURES



170lm/W

High Efficacy & Energy Saving: Up to 170 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



Time Control and Automatic Dimming: Smart time-based dimming for higher efficiency and longer lifespan.



Grade A LiFePo4 Battery: Capacity is more than 80% after 2000 cycles.



12/24V MPPT Controller: Intelligent to control the dimming by PIR/Motion sensor and timer.



High Efficiency Solar Panel: Adopting high efficiency monocrystalline silicon solar panel, conversion rate is more than 21%.



RELIABLE
WARRANTY

Reliable Warranty:
5 Years Warranty.



Split design: Allows flexible installation and optimal positioning of both solar panel and light for maximum efficiency and easier maintenance.

- Robust Protection:

IP65 waterproof & dustproof, IK08 impact resistance for harsh industrial environments.

- Superior Thermal Management:

Die-cast aluminum housing with optimized heat sink for reliable performance.

APPLICATIONS



Urban or Highway Area Lighting: Solar LED lights eliminate the need for costly trenching, wiring, and grid connection, delivering significant infrastructure savings. Complemented by high-capacity lithium-ion batteries, they provide 2-3 days of reliable backup illumination during cloudy weather or rainstorms, a critical advantage for highways and urban routes in regions with variable climate conditions.

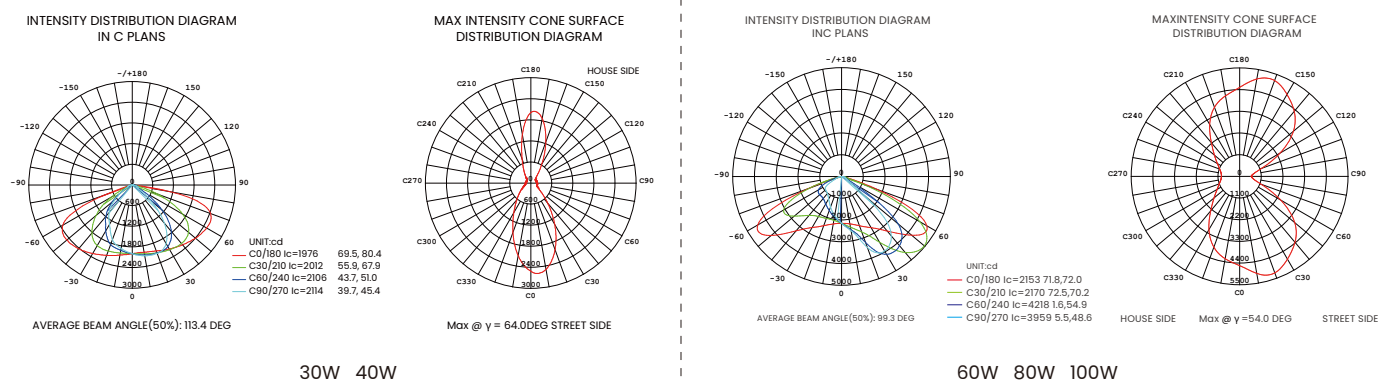


Industrial & Logistics Zones: Solar LED lights are uniquely engineered to thrive in these high-demand environments. By addressing core pain points, including high energy costs, remote locations with limited grid access, and stringent safety regulations, they seamlessly balance reliability, cost-efficiency, safety, and regulatory compliance.

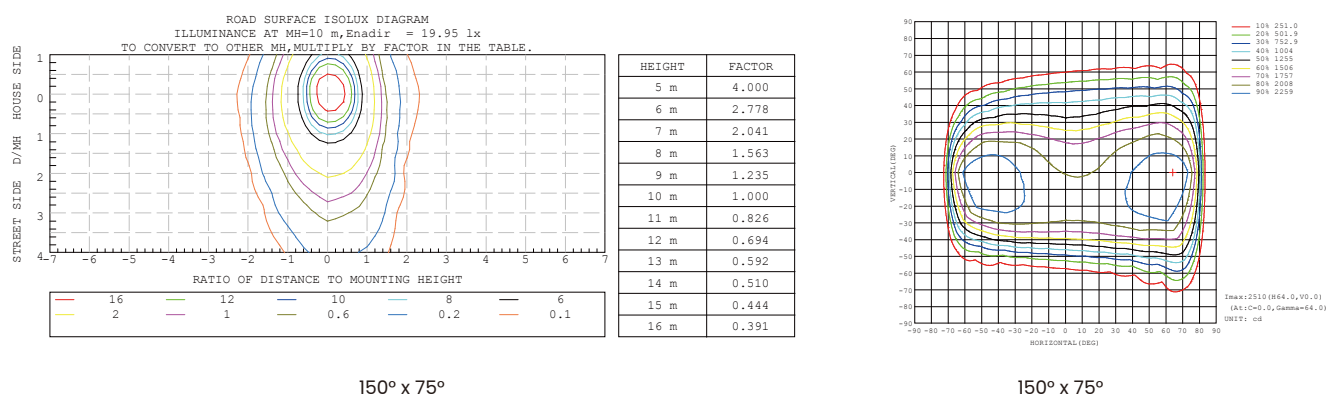
TECHNICAL PARAMETERS

Product Model	VenusII-30W	VenusII-40W	VenusII-60W	VenusII-80W	VenusII-100W
Electrical Performance					
Wattage	30W	40W	60W	80W	100W
Input Voltage	DC12.8V	DC12.8V	DC12V	DC24V	DC24V
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Battery Capacity	12.8V/30AH	12.8V/30AH	12.8V/60AH	25.6V/42AH	25.6V/60AH
Charging Time	5 Hours	5 Hours	5 Hours	5 Hours	5 Hours
Discharging Time	24-36h (2-3 nights)	24-36h (2-3 nights)	24-36h (2-3 nights)	24-36h (2-3 nights)	24-36h (2-3 nights)
Cycles of Battery	>2000	>2000	>2000	>2000	>2000
Solar Panel	Monocrystalline 18V 80W	Monocrystalline 18V 100W	Monocrystalline 18V 150W	Monocrystalline 36V 200W	Monocrystalline 36V 300W
Controller	MPPT	MPPT	MPPT	MPPT	MPPT
Optical Performance					
Luminous Efficacy	170lm/W	170lm/W	170lm/W	170lm/W	170lm/W
Luminous Flux	5100lm	6800lm	10200lm	13600lm	17000lm
CCT	3000K/4000K/5700K /6500K Options	3000K/4000K/5700K /6500K Options	3000K/4000K/5000K /5700K Options	3000K/4000K/5000K /5700K Options	3000K/4000K/5000K /5700K Options
CRI	Ra≥70	Ra≥70	Ra≥70	Ra≥70	Ra≥70
Beam Angle	150° x 75°	150° x 75°	150° x 75°	150° x 75°	150° x 75°
Reliability					
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	-10 ~ +60°C	-10 ~ +60°C	-10 ~ +60°C	-10 ~ +60°C	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP65	IP65	IP65	IP65	IP65
Impact Resistance	IK08	IK08	IK08	IK08	IK08
Sensor Control					
Daylight Sensor	-	-	-	-	-
Opearting Mode	0.5hour @20%, 3hours @ 100%, 1hour @ 50%, 8.5hours @20%, 0.5hours @80%, 0.5hours@15%, 6 dimming levels in total, with a lighting duration of 14 hours				
Mechanical					
Housing Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Lens Material	PC	PC	PC	PC	PC
Coating	Grey/RAL7030	Grey/RAL7030	Grey/RAL7030	Grey/RAL7030	Grey/RAL7030
Net Weight	3.5kg	5kg	14.8kg	18.4kg	20.1kg
Dimensions	540x229x108mm	540x229x108mm	745x332x182mm	910x332x182mm	910x332x182mm
Recommended Mounting Height	4-8m	4-8m	6-8m	8-10m	8-12m
Wind Resistance	>25m/s	>25m/s	>25m/s	>25m/s	>25m/s
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

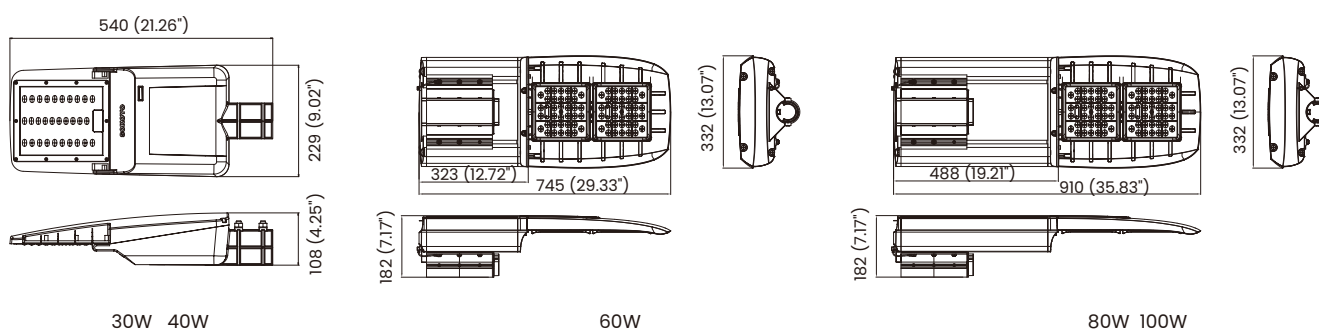
PHOTOMETRICS



ILLUMINANCE DISTRIBUTION



MECHANICAL DIMENSIONS



Product Model	VenusII-30W	VenusII-40W	VenusII-60W	VenusII-80W	VenusII-100W
Wattage	30W	40W	60W	80W	100W
Outer box (L*W*H)	595x270x267mm (23.43"x10.63"x10.51")	595x270x267mm (23.43"x10.63"x10.51")	805x390x240mm (31.69"x15.35"x9.45")	970x390x240mm (38.19"x15.35"x9.45")	970x390x240mm (38.19"x15.35"x9.45")
Q'ty/Ctn	2pcs	2pcs	1pcs	1pcs	1pcs
N.W./Ctn	7kg/15.4lbs	10kg/22lbs	14.8kg/32.63lbs	18.4kg/40.57lbs	20.1kg/44.31lbs
G.W./Ctn	9.2kg/20.24lbs	12kg/26.4lbs	16.3kg/35.94lbs	19.9kg/43.87lbs	21.6kg/47.62lbs
Remarks	0.5M cable	0.5M cable	0.5M cable	0.5M cable	0.5M cable

PRODUCT STRUCTURE DISPLAY

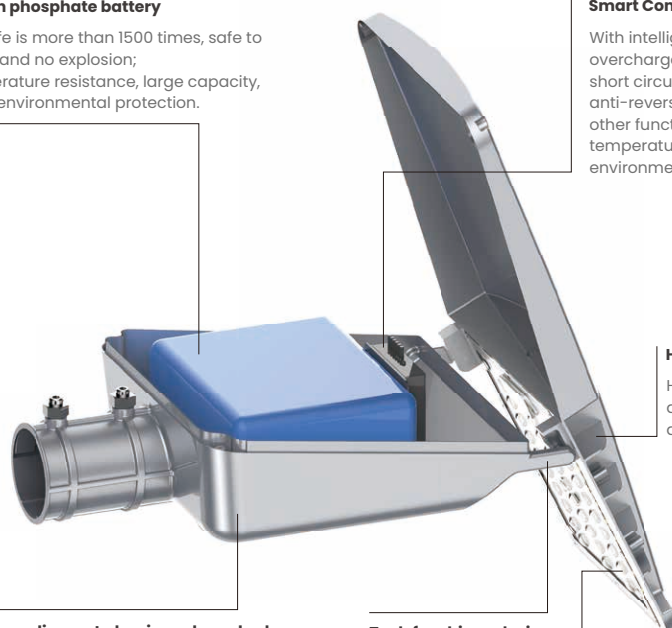
30W/40W

Lithium iron phosphate battery

The cycle life is more than 1500 times, safe to use, no fire and no explosion;
High temperature resistance, large capacity, green and environmental protection.

Smart Controller

With intelligent control of lighting time, overcharge, over discharge, electronic short circuit, overload protection, anti-reverse connection protection and other functions, it can adapt to cold, high temperature, humidity and other environments.



Heat dissipation design

Hollow out heat sink enhances air convection with high heat dissipation efficiency.

High-pressure die-cast aluminum lamp body

Adopting ADC12 high pressure die cast aluminum molding, impact resistance, corrosion resistance, electrostatic spray treatment after surface shot blast.

Tool-free hinge design

Quick separation of upper and lower cover without tools, easy to operate.

Bat-wing shape light distribution

The latest patented light source technology, through the lens special structure of the surface light source to form the bat wing shape, to achieve the best uniform illumination, greatly improve the lighting effect.

60W/80W/100W



• Integrated heat dissipation front cover

The integrated design of heat dissipation combined with end caps ensures the heat dissipation effect and high appearance, saves installation steps, and is easy to install.



Batwing Lens

The latest patented light source technology, through the special structure of the lens, realizes the light emitted by the light source to form a bat wing shape, achieves the best uniform illumination, and improves the lighting effect.



Anti-drop device design

The rear end cover of the lamp body is fixed on the profile lamp body by the drop device to prevent accidental falling during installation and maintenance and ensure the safety of personnel.



Sleeve chute + screw double fixation

Sleeve chute + screw double fixation
The custom sleeve and the profile lamp body are fixed by double fixing design. After the chute is inserted, it is fixed by external hexagon screws, which increases firmness and it's safe and reliable.



Quick release shaft screw design

Fast-release shaft screws are used for fixing, which can be disassembled manually and without tools. It is easy to repair and maintain, and the operation is convenient and simple.



Smart Controller

The built-in intelligent controller module can stabilize the voltage and limit the current, intelligently monitor the battery voltage, and effectively



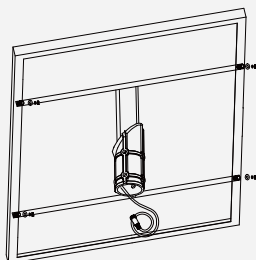
High pressure cast aluminum lamp body

It is formed by ADC12 high pressure die-casting aluminum, which is impact-resistant and corrosion-resistant. The surface is electrostatically sprayed after shot blasting.

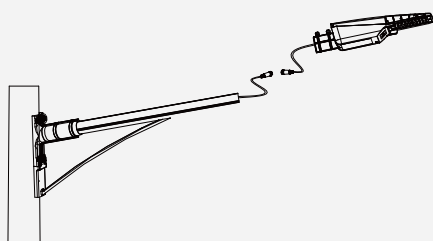
INSTALLATION

30W/40W

1. Fix the panel on the bracket with screws and thread the panel wire out of the socket.

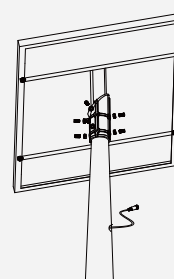


3. Put the panel wire through the arm of the lamp, connect it with the outlet plug of the lamp, and wait for the discharge mode, which is shown as the indicator light and the light source are steady on. Adjust the arm direction and lock the arm fixing screw on the lamp post after the light source is on.

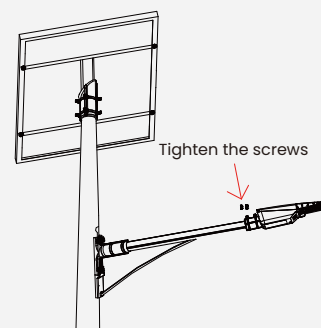


2. A: Lead the panel wire to the reserved threading hole on the lamp pole, put the socket into the lamp pole, adjust well the lighting angle of the panel, and then lock the 6 screws symmetrically.

B: Find something to cover the solar panel so that light can't penetrate. The purpose of this step is to simulate the conditions of photovoltaic panels in the dark, in order to test whether the lights are working properly.



4. After the light source is on, remove the shield on the panel and wait to enter the charging mode. The charging mode shows that the indicator light flashes slowly and the light source is off. After the test is normal, lock the fixing screw of the lamp, adjust the lighting angle of the solar panel, and then erect the lamp pole well.



ORDER INFORMATION

VENUSII-YY-Y

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① Venus II Series
All in Two Solar Light

② Wattage

30W	30W
40W	40W
60W	60W
80W	80W
100W	100W

③ Color Temperature

30K	3000K
40K	4000K
50K	5000K
57K	5700K
65K	6500K

④ Voltage

(Blank)	DC12V/24V
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WARRANTY PERIOD
5 YEARS
WARRANTY



WARRANTY COVERAGE
LED LIGHT SOURCE,
DRIVER



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT