

SOLO

OFF-GIRD Solar LED Light System



- Self Supported Hours of OFF-GIRD System: Max 180 Hours long lasting operation (basing on 200Ah Battery, 12W LED Flood Light Loading, 150Wp PV Panel, 4 Sun Hours, Solar Radiation 4~5 kWh / m2 / day)
- Durable mono crystalline PV modules with 15.2% Cell Efficiency
- MPPT charge controller to significantly improving the solar panels' energy utilization ratio,
- DG (Deep Cycle GEL) series is pure GEL battery with long floating design life ,it is ideal for standby or frequent cyclic discharge applications under extreme environments.
- Stainless Steel 316 grade IP68 LED flood light with high efficiency lumen output

Technical Data

OFF-GIRD Solar System

- System Power Consumption:12W/15W 24W / 30W
- Self Supported Hours: (basing on 200Ah Battery, 150Wp PV Panel, 4 Sun Hours, Solar Radiation 4~5 kWh / m² / day)
 1. Max 180 Hours long lasting operation @ 12W LED Flood Light Loading,
 2. Max 120 Hours long lasting operation @ 15W LED Flood Light Loading
 3. Max 80 Hours long lasting operation @24W LED Flood Light Loading
 4. Max 60 Hours long lasting operation @ 30W LED Flood Light Loading
- System Certification: CE EN55015 / EN61547

PV Panel (36 / mono crystal silicon)

- Module type: SZYL-M150-18
- Power output:150Wp (Power output: 150wx4 hours x0.8 (Factor)=0.48KWH @4 Sun Hours and Solar Radiation 4~5 kWh / m² / day)
- Module efficiency:15.2%
- Voltage at Pmax: 18.0V
- Max. system voltage:1000VDC
- Max. series fuse rating: 15A
- Limiting reverse current: 15A
- Operating temperature range: -40°C to 85°C
- Front cover (material / thickness):low-iron tempered glass / 3.2mm
- Cell (quantity / material / dimensions /number of busbars): 36 / mono crystal silicon / 156mm x 156mm/ 4
- Frame (material / color / anodization color /edge sealing):anodized aluminum alloy / silver / clear / silicone or tape
- Junction box (protection degree): IP65
- Certificate: CE
- Dimensions (L / W / H): 1480mm/670mm /3 5mm
- Weight: 10.8kg

MPPT Integrated Constant-Current Charge Controller

- Model: DM160
- System voltage: 12V/24V
- Charging current:15A
- MPPT tracking efficiency: 99%
- Protection degree: IP68
- Operating temperature:-35°C □ +65°C
- Dimensions (mm): 142x88.3x24.5

DG (Deep Cycle GEL) Battery DG12-200(12V200Ah)

- Cells Per Unit: 6
- Voltage Per Unit: 12V DC (Output Power: 200Ahx12V x0.8 (Factor) =2.4KWH)
- Capacity : 200Ah (Charging Hours by PV Panel : 2.4KWH / 0.48KWH=5 days)
- Weight: Approx. 60.0 Kg (Tolerance±1.5%)
- Internal Resistance: Approx. 5.2 mΩ
- Terminal:F16(M8)/F10(M8)
- Max. Discharge Current: 2000A (5 sec)
- Operating Temperature Range: Discharge: -40°C~60°C/ Charge: -20°C~50°C
- Certificate: UL

SOLO LED Flood Light Specification

- Luminaire Type: Surface Mounted and Adjustable Type
- Power: 24W/ 30W/36W
- Input Voltage: DC24V 1000mA(24W) or DC24V 1250mA (30W) or DC24V 1500mA(36W)
- Color Temperature: 2700K / 3000K/4000K/5000K/6500K
- Color Rendering Index: >80
- Beam Angle: 30° / 45° /60 °
- Luminaire Efficacy: 70m/w(2700K/3000K) ;80m/w(4000K) ;90m/w(4000K/6000K)
- Light Source Brand:CREE
- Housing materials: Stainless Steel Grade 316 and Tempered Glass
- Ingress Protection: IP68
- Operating Temperature Range:-20 °C / +60 °C
- Dimension: Dia 150mm x H: 135mm
- Weight: 5.5kg

Certification



Project	Fixture#	Date
		Firm



Ordering Information

Choose the option that suits your need and write its corresponding code on the appropriate line to form the product code.

Example product code: [SOLO-24W](#)

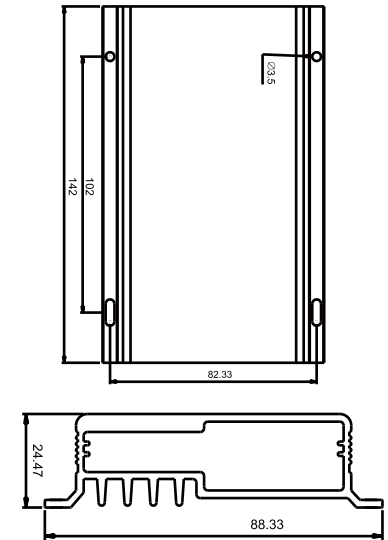
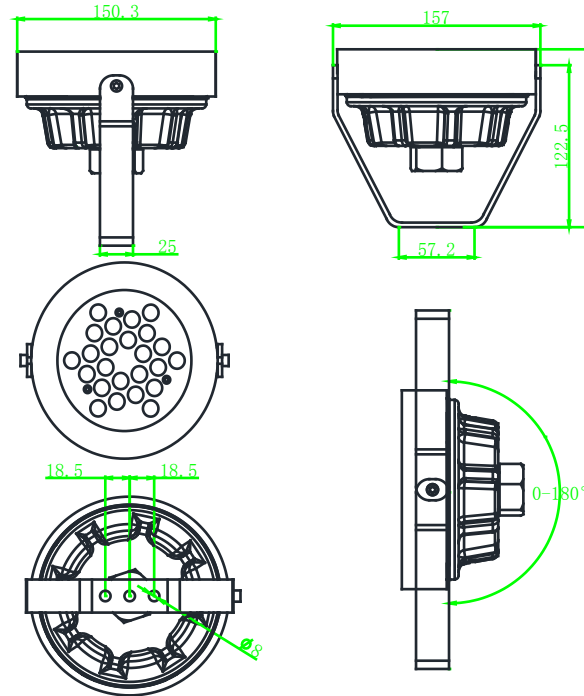
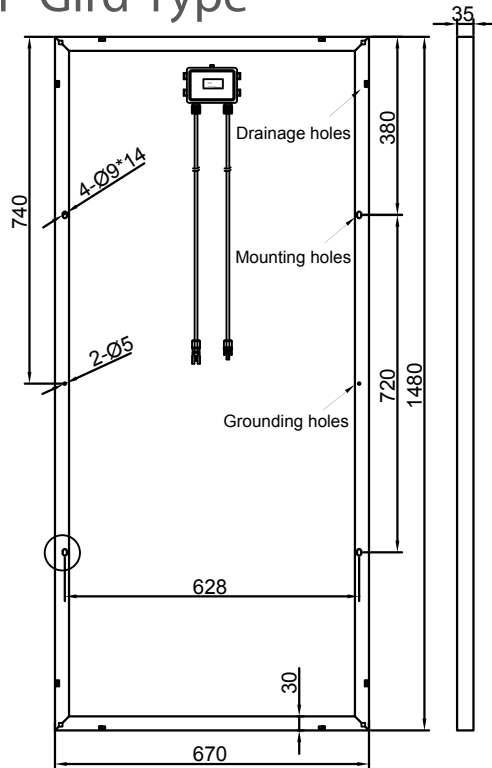
SOLO - - _____
 System Power
 Consumption

System Power Consumption	
Code	Description
12W	12W
15W	15W
24W	24W
30W	30W

Technical Drawing

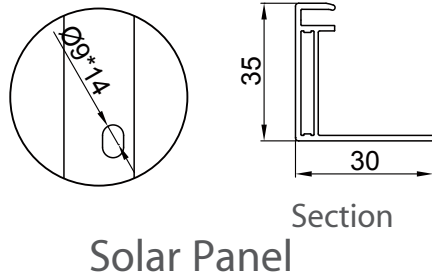
Solar LED Light System-SOLO Series

OFF-Gird Type

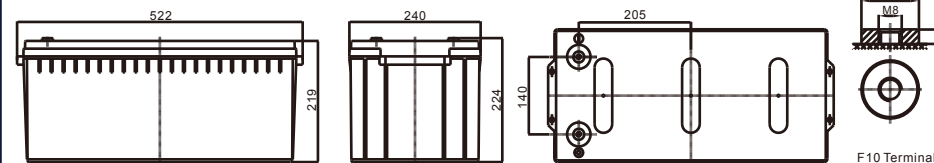


MPPT Solar Controller

Stainless Steel Grade 316
IP68 LED Flood L



12V200Ah Battery Dimensions

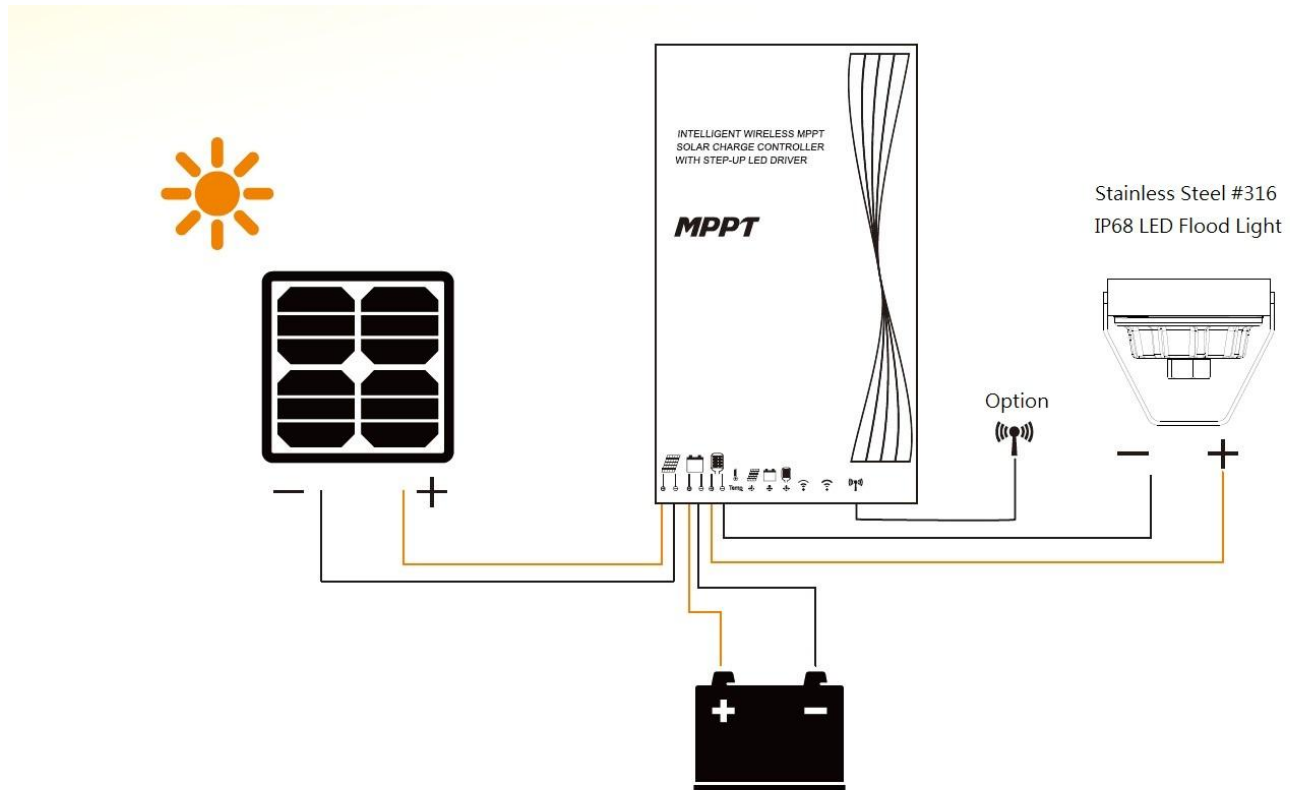


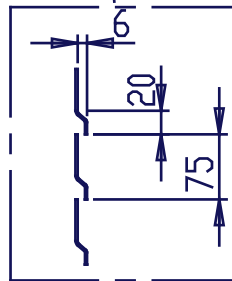
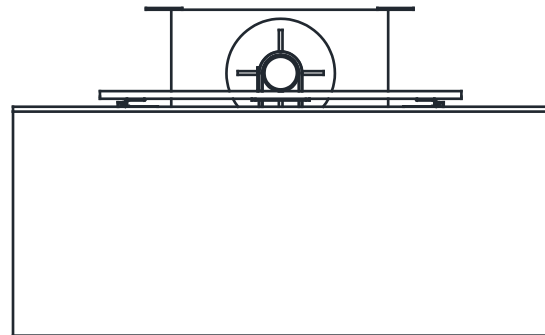
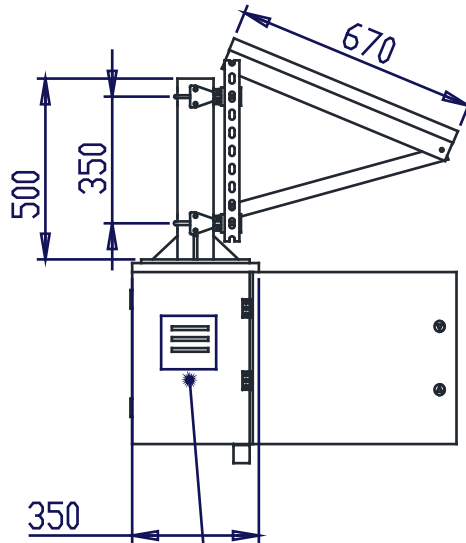
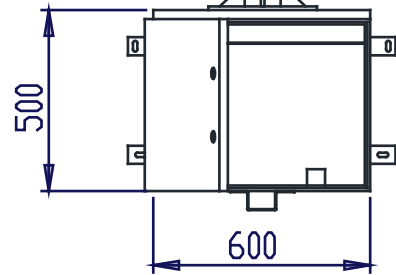
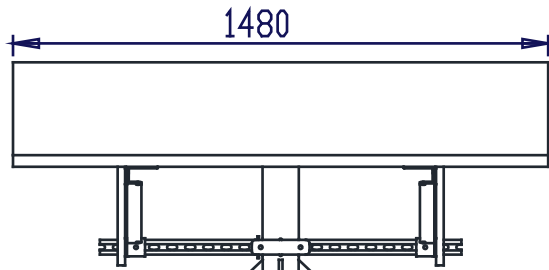
Length	522±1mm (20.6 inches)
Width	240±1mm (9.45 inches)
Height	219±1mm (8.62 inches)
Total Height	224±1mm (8.82 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

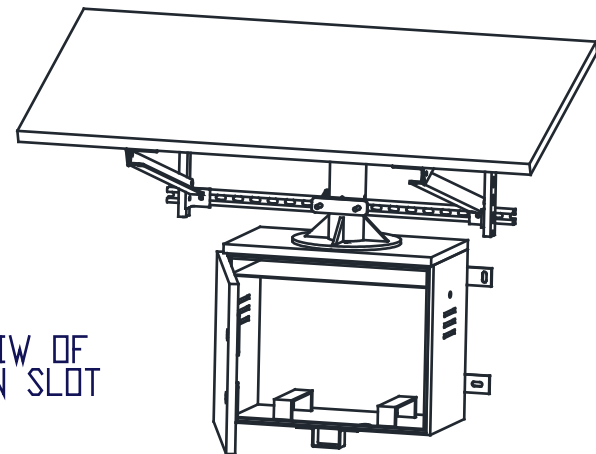
Unit: mm

Wiring Drawing





SECTION VIEW OF VENTILATION SLOT



Unit:mm

DIMON
TECHNOLOGY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
LIMITS X = ±0.45
 Z = ±0.40
 Y = ±0.40
 Z = ±0.40
 Y = ±0.45

FINISH

NIL

TITLE

Solar Panel Box

	NAME	SIGNATURE	DATE	MATERIAL
DRAWN				Stainless Steel SS316 IP54
CHECK'D				
APPROV'D				
MFG				
QA				

DWG NO.

\\[Date] Solar Panel Box

A4

SCALE: AS SHOWN

SHEET 1 OF 1