

Pole Mount Solar Panel Solution (Stainless Steel Enclosure)

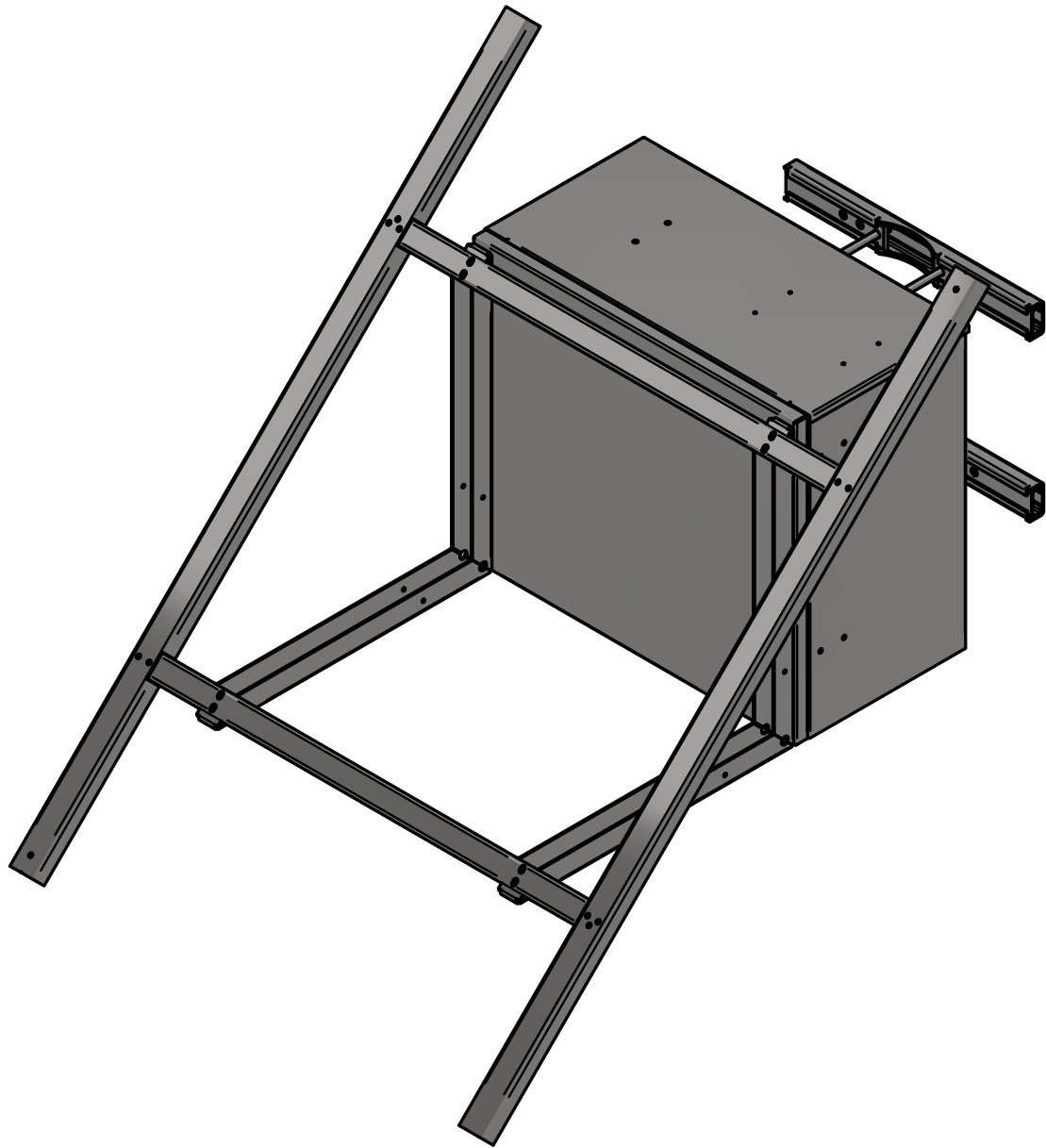
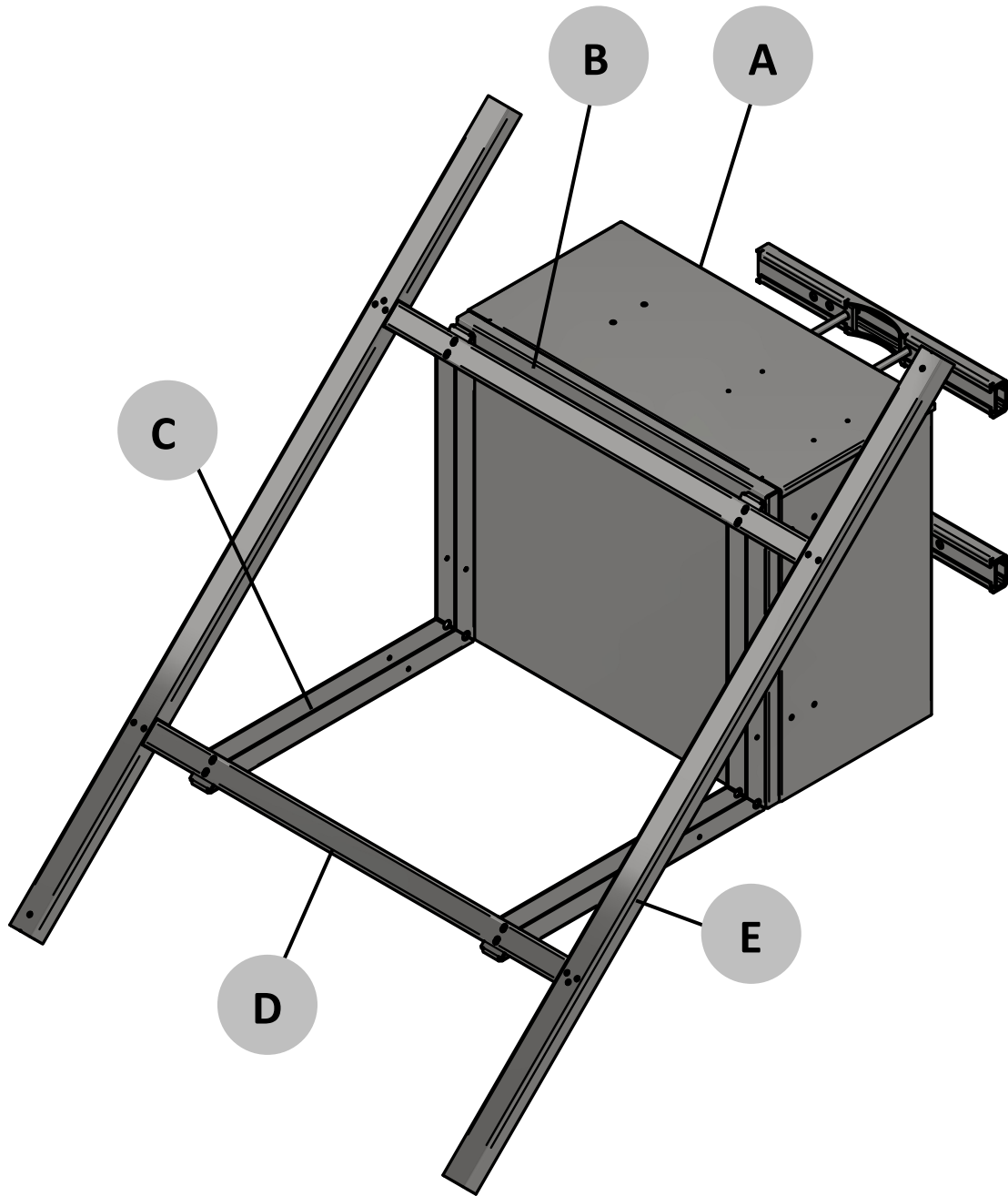


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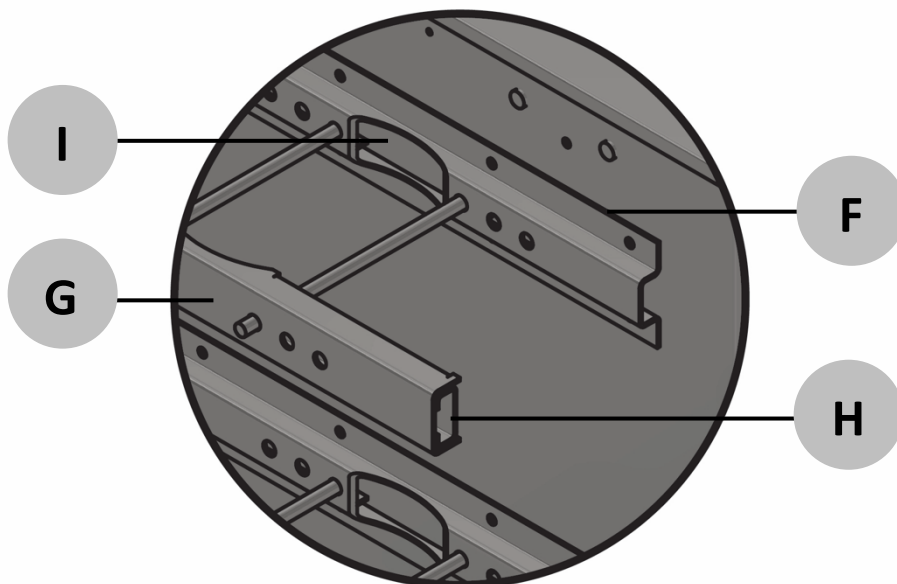
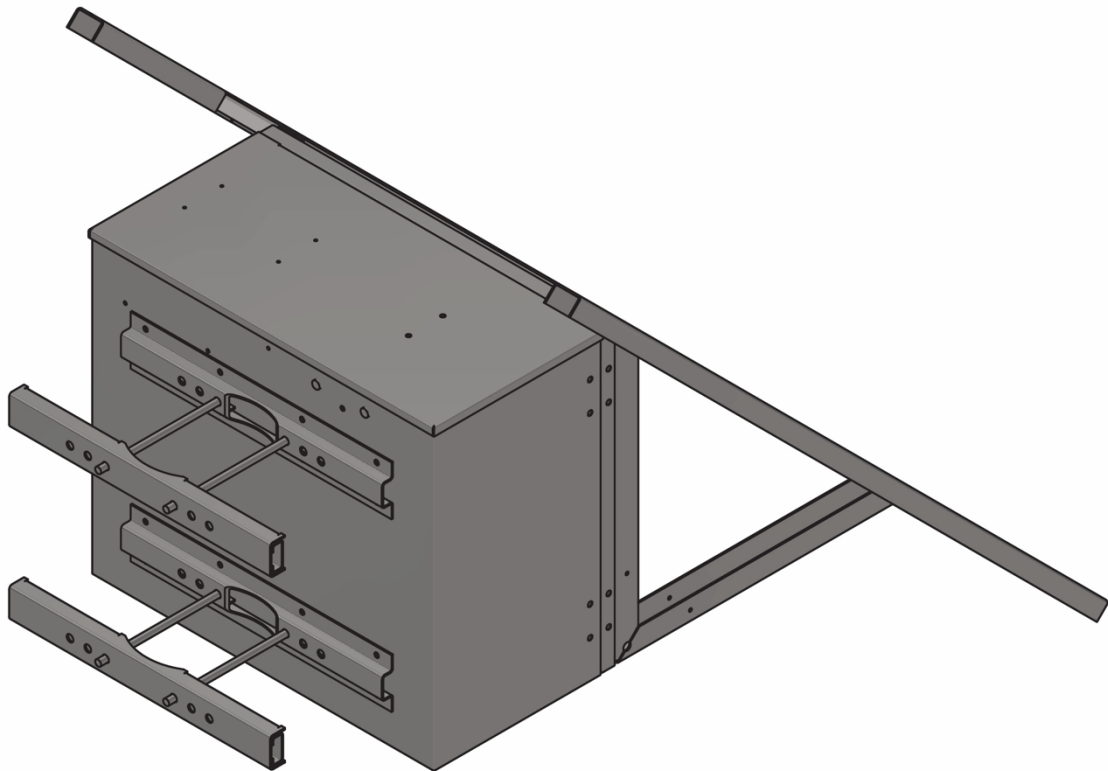
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STAINLESS STEEL POLEMOUNT ENCLOSURE SOLUTION (FRONT VIEW)



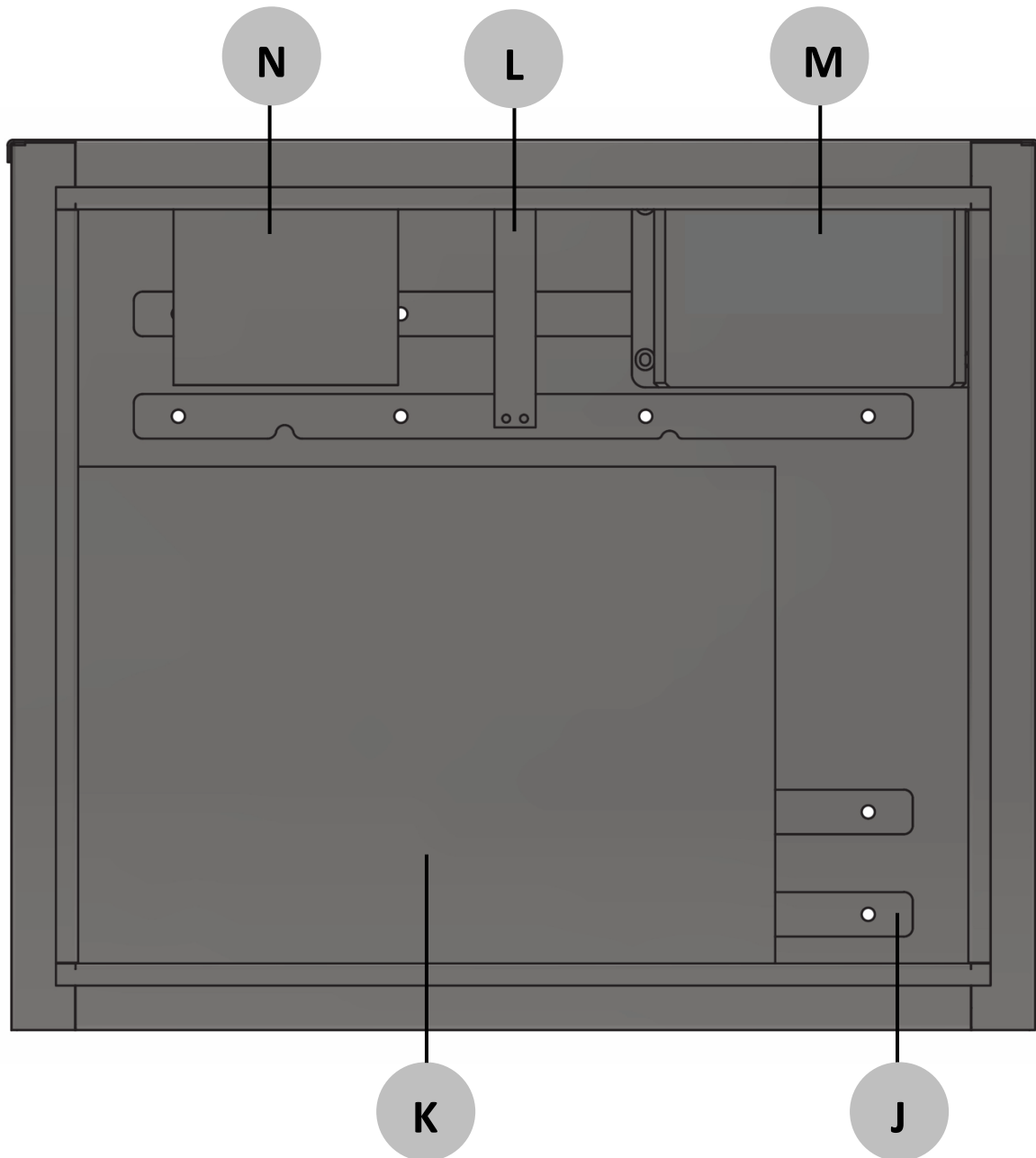
A:	Enclosure	x1
B:	Enclosure Door	x1
C:	45° Bracket	x2
D:	Horizontal Stiffener	x2
E:	Vertical Stiffener	x2

STAINLESS STEEL POLEMOUNT ENCLOSURE SOLUTION (REAR VIEW)



F:	Pole Mount Bracket A	X2
G:	Pole Mount Bracket B	X2
H:	Pole Mount Bracket B Inner Channel	X2
I:	Pole Mount Mounting Rods	X4

STAINLESS STEEL ENCLOSURE (INSIDE VIEW)



J:	Pole Mount Stiffener Plate	X4
K:	Battery	X1
L:	Connector Block	X1/2
M:	Charge Controller	X1
N:	Switch	X1

ASSEMBLY INSTRUCTIONS

Enclosure Assembly Instructions

1. Fasten 2 x item C to the enclosure door (Item B) using the supplied nuts and screws on the door.
2. Fasten 2 x Item D to Item C using the supplied nuts.
3. Fasten 2 x Item E to Item D using the supplied nuts.

Pole Mount Bracket Assembly

1. Fasten 4 x Item J to the inside of the enclosure with the screws facing out of the enclosure.
2. Place 4 x Item I (Pole Mounting Rods) into 2 x Item F facing outwards.
3. Fasten 2 x Item F to the outside of the enclosure with the screws from Item J.
4. Place 2 x Item H inside Item G.
5. Place enclosure in desired location on pole.
6. Fasten 2 x Item G to 2 x Item F.
Fasten either side evenly to avoid distortion.

SOLLAR CHARGE CONTROLLER

Solar Charge Controller | LS-E(EU) Series



LS-E(EU) series is a reliable, stable and economical solar charge controller, easy to operate. Based on the LS-E series, the LS-EU series adds a +5V/1.2A USB terminal output which can charge mobile phones, power DC fans and other DC electronic devices.

Features

- Series PWM charging mode
- LED indicator indicates battery situation
- Battery temperature compensation function
- Extensive electronic protection
- USB ports available (LS-EU series only)
- User-friendly design buttons
- Industrial quality standard design

Solar Charge Controller | LS-E(EU) Series

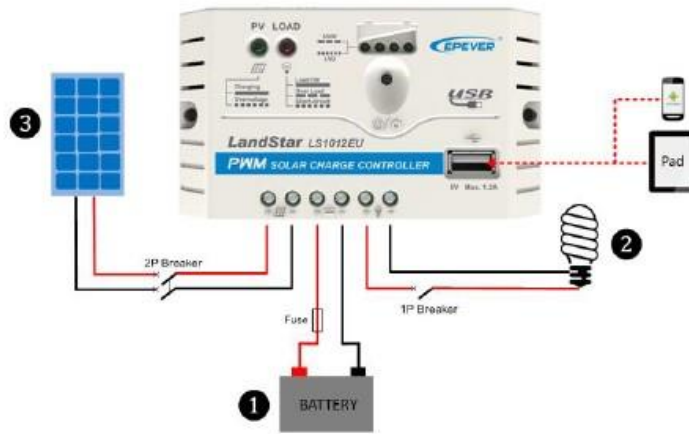
Specifications

Technical Specifications			
Model No.	LS1024E	LS2024E	LS3024EU
Nominal System Voltage	12/24VDC Auto	12/24VDC Auto	12/24VDC Auto
Battery Type	Sealed(Default)/Gel/Flooded	Sealed(Default)/Gel/Flooded	Sealed(Default)/Gel/Flooded
Battery Input Voltage Range	8~32V	8~32V	8~32V
Rated Charge Current	10A	20A	30A
Rated Discharge Current	10A	20A	30A
Max. PV Open Circuit Voltage	50V	50V	50V
Equalization Voltage	Sealed:14.6V,Flooded:14.8V	Sealed:14.6V,Flooded:14.8V	Sealed:14.6V,Flooded:14.8V
Boost Voltage	Gel:14.2V,Sealed:14.4V, Flooded:14.6V	Gel:14.2V,Sealed:14.4V, Flooded:14.6V	Gel:14.2V,Sealed:14.4V, Flooded:14.6V
Float Voltage	Gel/Sealed/Flooded: 13.8V	Gel/Sealed/Flooded: 13.8V	Gel/Sealed/Flooded: 13.8V
Low Voltage Reconnect Voltage	Gel/Sealed/Flooded: 12.6V	Gel/Sealed/Flooded: 12.6V	Gel/Sealed/Flooded: 12.6V
Low Voltage Disconnect Voltage	Sealed:14.6V,Flooded: 11.1V	Sealed:14.6V,Flooded: 11.1V	Sealed:14.6V,Flooded: 11.1V
Self-Consumption	12V ≤ 5mA; 24V ≤ 7mA	12V ≤ 5mA; 24V ≤ 7mA	12V ≤ 5mA; 24V ≤ 7mA
Temperature Compensation	-5mV/°C/2V	-5mV/°C/2V	-5mV/°C/2V
Relative Humidity	≤95%,(N.C.)	≤95%,(N.C.)	≤95%,(N.C.)

Solar Charge Controller | LS-E(EU) Series

Enclosure	IP30	IP30	IP20
Grounding	Common Positive	Common Positive	Common Positive
Operating Temperature Range	-35°C~50°C	-35°C~50°C	-35°C~50°C
Dimensions(LxWxH)(mm)	101.2×67×21.8	128×85.6×34.8	148×106.8×43.7
Weight	0.08kg	0.15kg	0.29kg

Diagram



Solar Car



Solar Home



Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

PHOTOVOLTAIC MODULE POLYCRYSTALLINE SOLAR PANE

Photovoltaic Module Polycrystalline Solar Panel | CNCC150W



Features

- Aesthetic appearance
- Excellent efficiency
- Photovoltaic technologies
- Strong aluminium frame
- Mechanical load testing 5400Pa
- Wind pressure 2400Pa

Quality & Safety

- Rigorous quality control meeting
- High-transmissivity low-iron tempered glass
- Strong aluminium frame using UV-resistant silicon
- ISO 9001:2008, ISO14001:2004 & OHSAS18001
- IEC61215, IEC61730, Safety Class II, Conformity to CE

Photovoltaic Module Polycrystalline Solar Panel | CNCC150W

Specifications

Technical Specifications

Model No.	CNCC150W
Maximum Power at STC (Pmax)	150W
Optimum Operating Voltage (Vmp)	17.84V
Optimum Operating Current (Imp)	8.41A
Open-Circuit Voltage (Voc)	22.32V
Short-Circuit Current (Isc)	8.961A
Solar Module Efficiency (%)	14.9
Dimensions	1480mm*680mm*35mm
Weight	12Kg
Front Glass	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Operating Temperature	-40 to 85°C
Maximum System Voltage	DC1000
STC	1000W/m ² , Modules Temperature 25°C, AM=1.5



100AH GFM DEEP CYCLE GEL BATTERY

100ah (12V) GFM Deep Cycle GEL Battery | EPS12100 GEL DC

Applications

- Telecommunications
- UPS, Data Center
- Energy Storage, Electric Systems
- Emergency Lighting
- Medical, Electronic Equipment

General Features & Cautions

- Self-discharge rate is extreme
- Wide range of operating temperature
- 100% Sealing and maintenance-free
- Good conductivity
- Excellent charge acceptance
- Safe and reliable explosion-proof exhaust system
- No Spark, Flame or Smoking
- Charge in well ventilated areas
- Read your vehicle booster and battery manuals prior to charging
- In case of exposure to acid, flush immediately with clean water, then request immediate medical assistance
- Keep out of reach of children

Disposal Method

- Dispose at an authorised collection point
- Never dispose with household waste
- Always store and transport batteries in an upright position (free of danger, short-circuits & tipping over)
- During transportation, leave protective cover over the negative terminal
- Transport batteries in appropriate, acid-resistant containers



100ah (12V) GFM Deep Cycle GEL Battery | EPS12100 GEL DC

Technical Specification

Specifications		
Nominal Voltage	12V	
Rated Capacity	100Ah	
Dimensions	329mm(L) x 172mm(W) x 216mm(H)	
Weight	±28.7Kg	
Terminal	M8	
Container Material	ABS	
Totted Capacity	C20(5.3A 1.80V/cell) C10(10.0A 1.80V/cell) C5 (17.0A 1.80V/cell) C3 (26.0A 1.70V/cell) C1 (60.0A 1.70V/cell)	106.0Ah 100.0Ah 85.0Ah 78.0Ah 60.0Ah
Max. Discharge Current	1000A(5s)	
Internal Resistance (25°C)	Approx. 5.5mΩ	
Operating Temp. Range	Discharge: - 20°C ~55°C Charging: - 0°C ~40°C Storage: - -25°C ~45°C	
Nominal Operating Temp. Range	25±5°C	
Max. Charging Current	25.0A	
Charge Voltage	Float: 13.5V Cycle (Equalization): 14.1~14.1V Temp Coefficient: -5mV/°C	
Effect of Temp. to Capacity	40°C 25°C 0°C	105% 100% 85%

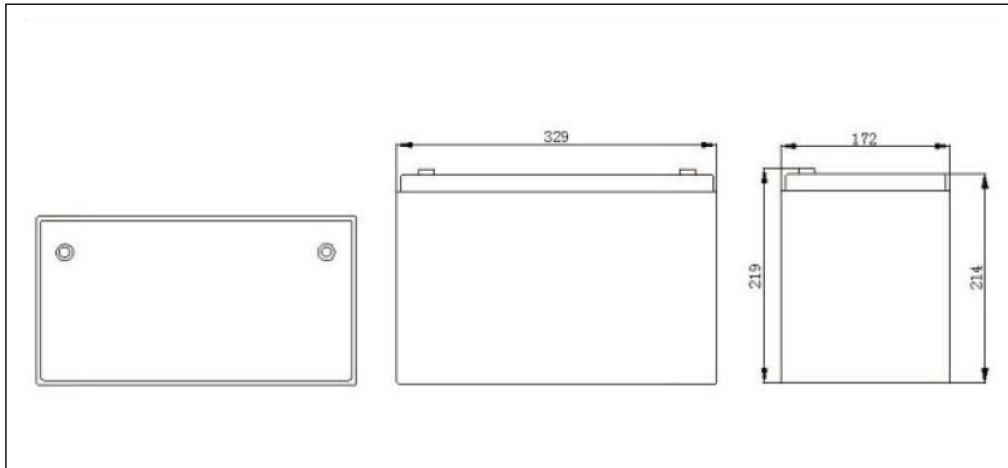
100ah (12V) GFM Deep Cycle GEL Battery | EPS12100 GEL DC

F.V/Time	10min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	180	97.6	64.2	35.7	27.3	21.8	18.5	12.5	10.6	5.56
10.20V	160	90.3	60.0	34.0	26.0	21.0	17.8	12.1	10.3	5.43
10.50V	150	86.4	57.9	33.0	25.2	20.5	17.4	11.9	10.2	5.35
10.80V	140	82.5	55.8	32.3	24.7	20.0	17.0	11.7	10.0	5.30
11.10V	119	73.2	50.4	29.9	22.9	18.6	15.8	10.9	9.40	5.03

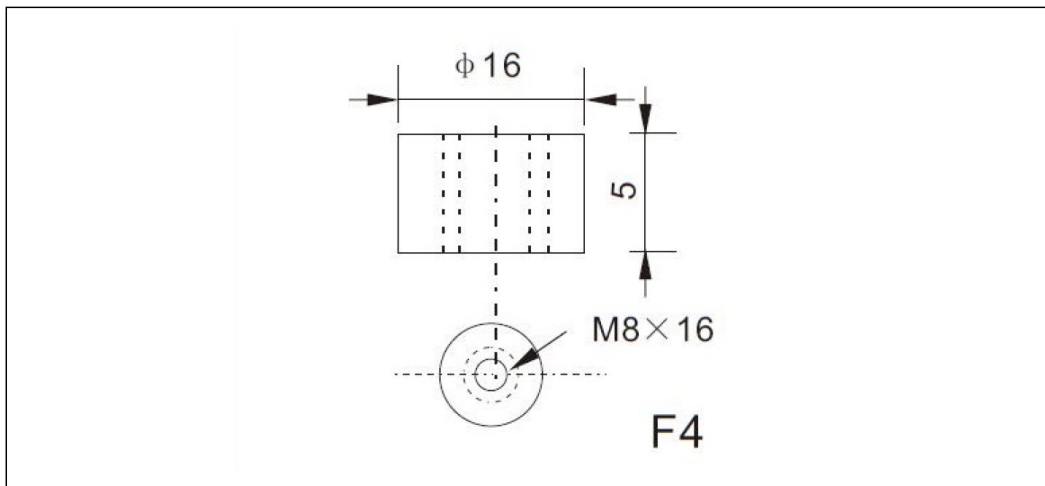
F.V/Time	10min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	1935	1083	725	347	317	255	216	174	124	65.6
10.20V	1768	1020	681	330	302	246	208	142	121	60.1
10.50V	1680	985	660	322	294	241	204	140	120	63.4
10.80V	1589	950	639	316	288	235	200	138	118	63.1
11.10V	1368	850	580	294	268	220	186	129	111	60.1

100ah (12V) GFM Deep Cycle GEL Battery | EPS12100 GEL DC

Battery Dimensions



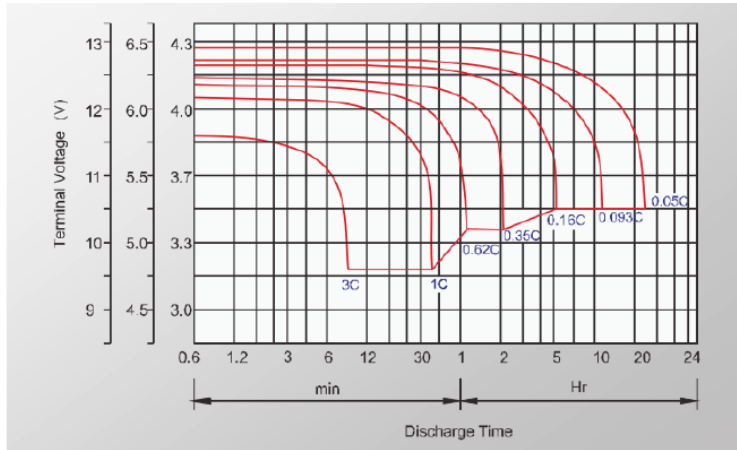
Battery Terminal



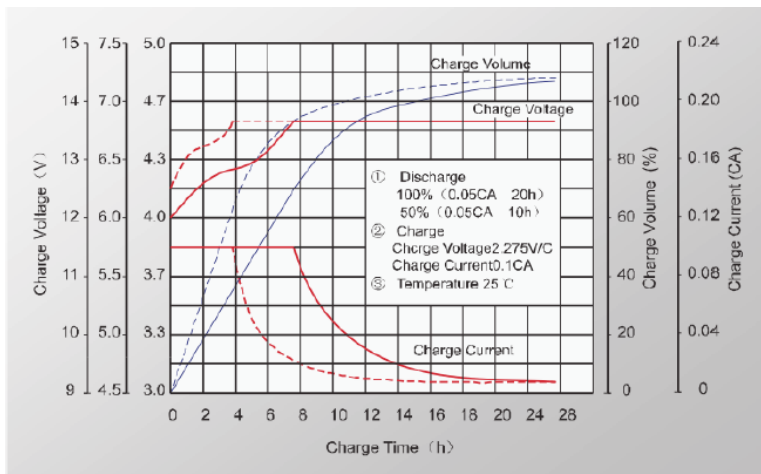
100ah (12V) GFM Deep Cycle GEL Battery | EPS12100 GEL DC

Technical Diagrams

Discharge Characteristics

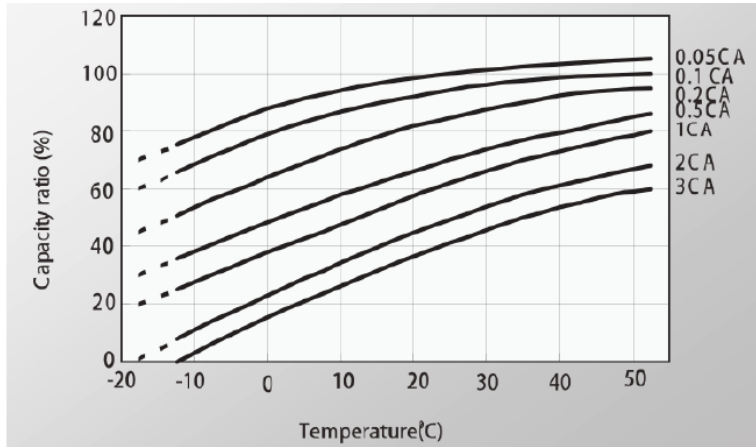


Float Characteristics (Stand-by)



100ah (12V) GFM Deep Cycle GEL Battery | EPS12100 GEL DC

Temp. Effects in Relation to Battery Capacity



Temp. Effects on Long Float Life

