

CE RoHS FC UN38.3 MSDS

Solar Battery Backup System

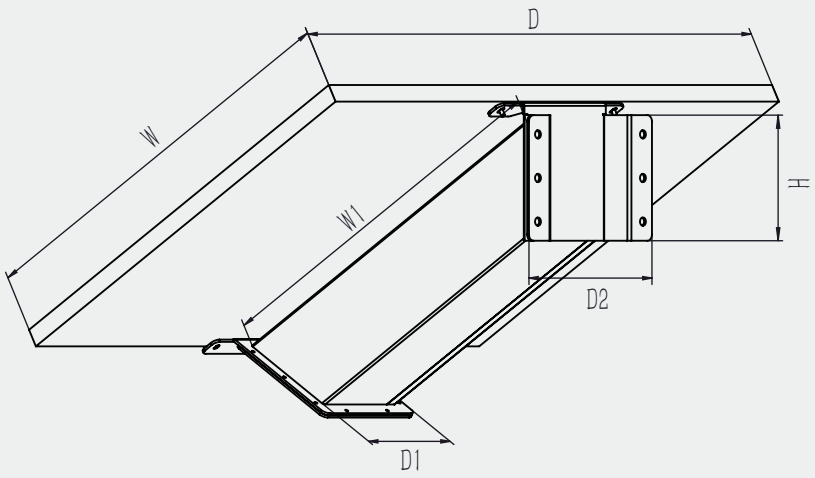
200W Solar panel 100Ah Battery

This product is specifically developed for small electrical devices to solve the challenges of no grid access and high wiring costs. It is a compact photovoltaic energy storage integrated power source that seamlessly integrates advanced solar technology with an efficient energy storage system. It is managed by an intelligent BMS (Battery Management System) that oversees the charging and discharging processes. The use of NCM ensures a long service life and high safety. Considering the low environmental temperatures in some regions, we have added an intelligent heating system to ensure the utilization rate of battery energy, adapting to a wide temperature range of -20°C to 65°C. The meticulously designed structure has a waterproof rating of IP66, is simple to install, and features multiple protection functions as well as automatic adjustment and recovery capabilities to fully realize unattended operation performance.

- ▶ Intelligent sleep protection
- ▶ Quick charge
- ▶ Multiple protection
- ▶ Smart BMS
- ▶ Support parallel expansion

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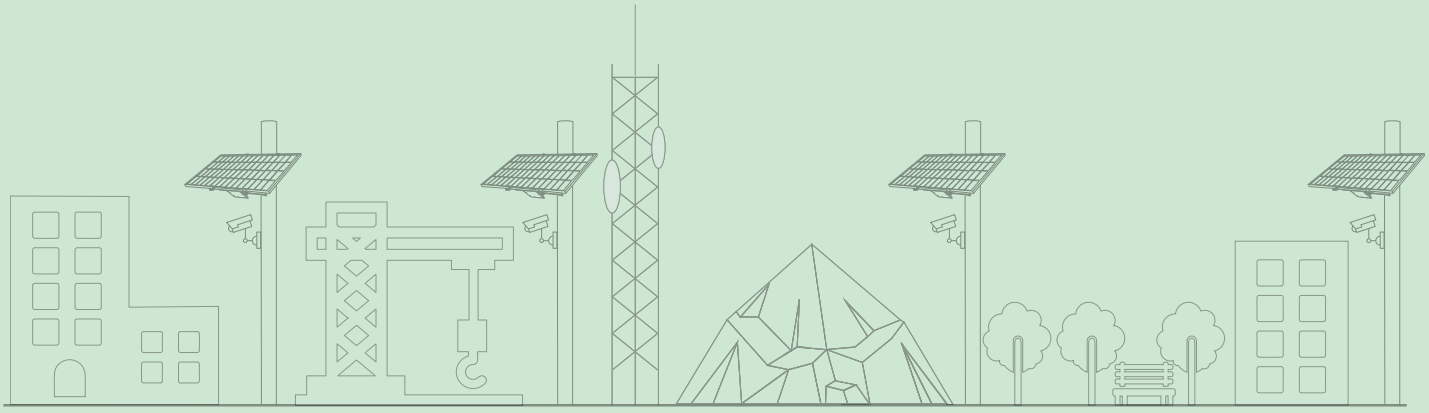
Dimensions & weight



	SF-SOLARKIT-DC-1280WH-12V-CLOUD
W	765mm
D	1375mm
W1	700mm
D1	160mm
D2	272mm
H	196mm
Weight	31kg

Product Highlights

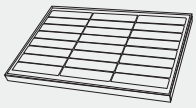
- MPPT Maximum Power Point Tracking mode of power generation.
- Standard MODBUS protocol, supports 485 communication & Bluetooth signal transmission.
- Static current 60mA, intelligent sleep and wake-up functions, ultra-low power consumption for extended standby
- Smart temperature control, the heating system is powered by photovoltaic, but heating in low-temperature environments does not consume battery energy.
- Integrated design, adjustable installation direction.



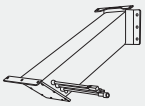
Solar Battery Backup System

Parameter	SF-SOLARKIT-DC-1280WH-12V-CLOUD		
Charge			
PV power	200W		
PV input voltage	18V		
Material	Monocrystalline silicon		
Energy storage			
Battery Type	Lifepo4		
Battery Capacity	100AH		
Total Energy	1280Wh		
Available Capacity	1152Wh		
Discharge Depth	90%DOD		
Cycles	＞2000 deep loops		
Nominal Voltage	12.8V		
Working Voltage Range	10~14.6Vd.c		
Discharge			
Output Voltage	10~14.6Vd.c（can be customized）		
Maximum Output Current	20A		
Efficiency	>95%		
Function			
Communication	RS485		
Battery Heating	Charging current > 2A and lower than -5℃ turns on		
Protection Type	Overcurrent/overvoltage/short circuit/undervoltage/temperature		
Operating Temperature Range	-20℃~65℃		
Status Indicator	LED (charging status, battery status, output status)		
General Parameters			
Output Method	Standard DC plug 5521 (can be customized)		
Output Line Length	1.5m（can be customized）		
Protection Level	IP65		
Humidity Range	4-100%（No condensation）		
Cooling Method	Natural heat dissipation		
Hazardous Material Classification	9		
Shell Material	Metal		
Installed Weight	30Kg	37kg	40.5kg
Mounting Method	Hanging rod/wall mounting		
Warranty	2 years		
Certificate	UN38.3/MSDS		

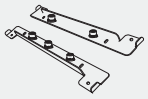
Solar Battery Backup System



Solar Panel x 1



Battery x 1



PV crossbeam x 2
M6 Screws- Washers-
Spring Washers×5



DC Cable x 1



Fixture x 1



M6 (25) Screws×4
M6 (35) Screws×4



Threaded Rod x 6



Frame clamp x 4



Nuts x12



Washers x 12
Spring Washers x 12

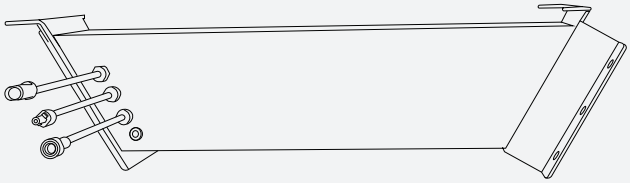


Hex Wrench x 1

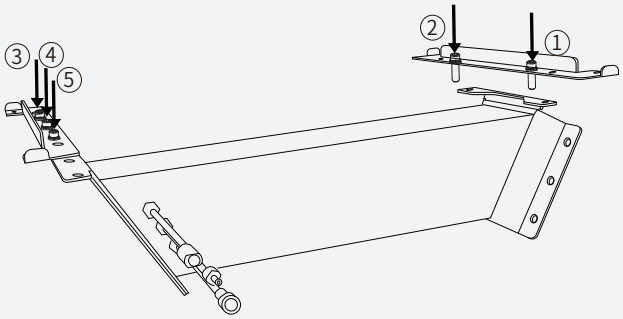


Installation
Guidebook x 1

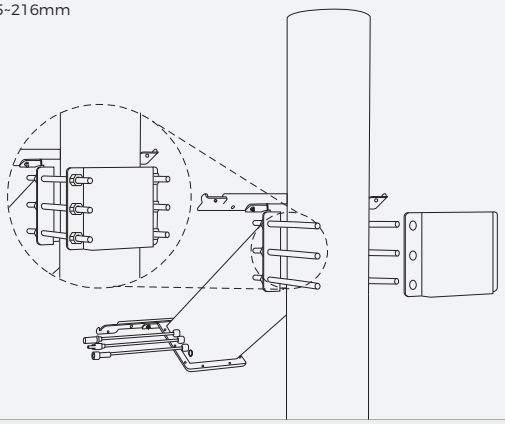
1 Place the battery horizontally



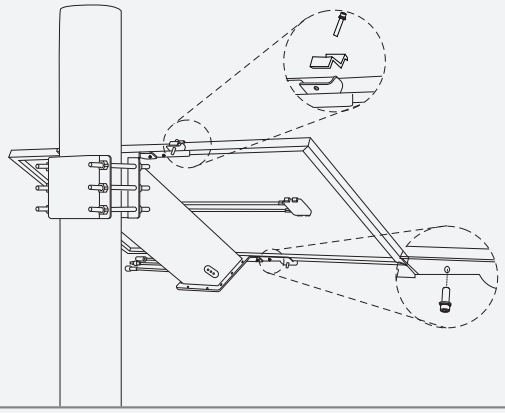
2 Align the photovoltaic crossbeam with the corresponding holes and secure it using M6 nuts, washers, and spring washers.



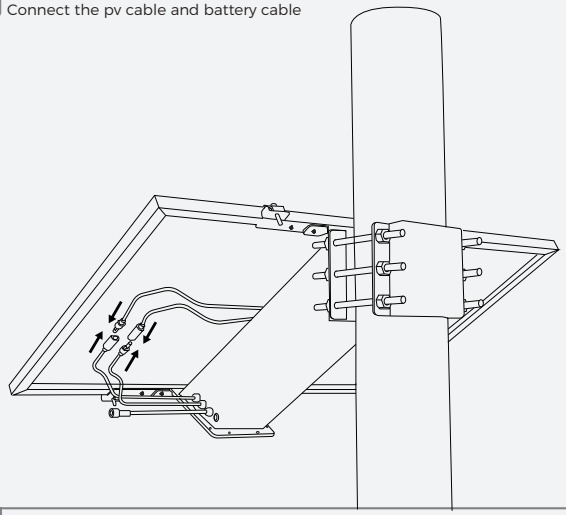
3 Use M10 screws and threaded rods to mount the fixture and equipment onto the vertical pole, which has a diameter of 165~216mm



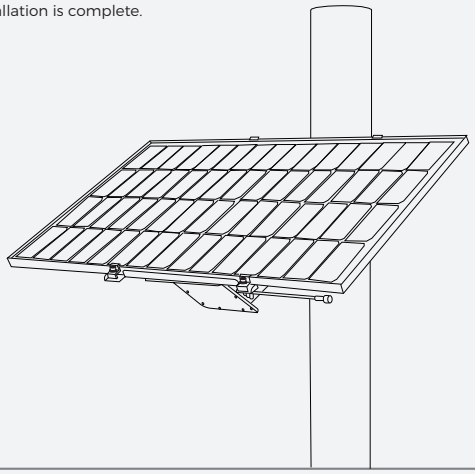
4 Mount the solar panel on the pv crossbeam and fix it in place with screws and frame clamp



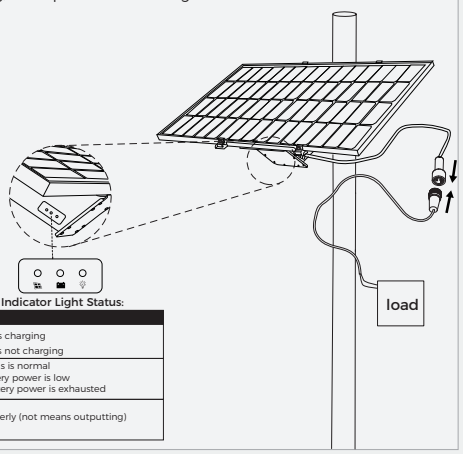
5 Connect the pv cable and battery cable



6 Installation is complete.



7 Once the load is secured, connect the camera's DC power supply. If the cable is too long, use zip ties for fastening



Indicator Light Status:

Indicator Light	Colour	Status
Solar panel indicator light	green	On - the solar panel is charging Off - the solar panel is not charging
Battery indicator light	green	On - the battery status is normal Flashing slowly- battery power is low Flashing quickly- battery power is exhausted
Load indicator light	Red	On - can output properly (not means outputting) Off - cannot output