RG-SOLAR-SE120W-KIT

120W Solar Kit (Monocrystalline)

RANGER

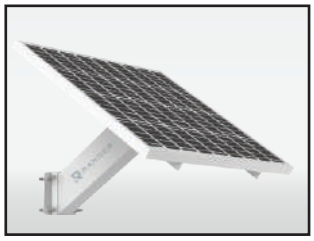
Ranger Solar Panel Kit is an intelligent, energy saving and cost-efficient solar power supply system. It provides stable and reliable power output for the equipment from harvesting the energy of the sun-light. This kit can be pair with different kind of CCTV solutions to fulfill different circumstances and environment. The main priority of this kit is to provide easy and hassle-free installation.

Plug and Play

This product comes with mounting bracket, compact size, easy installation and less wiring.

4 PIN IP68 Waterproof Connector

High temperatures, vibration and shock resistant with IP68 water ingress.
Suitable for harsh environment.
Ensures a secure and stable connection.



LiFEPO4 Battery

The product is made of LiFePO4 battery and new nano functional conductive materials, with excellent electrical and thermal properties, fast charging efficiency and excellent temperature characteristics.

Smart BMS (Battery Management System)

BMS has anti-reverse connection, over charge, over discharge, balance, charge trickle, under voltage, over voltage, short circuit and waterproof protection, etc.

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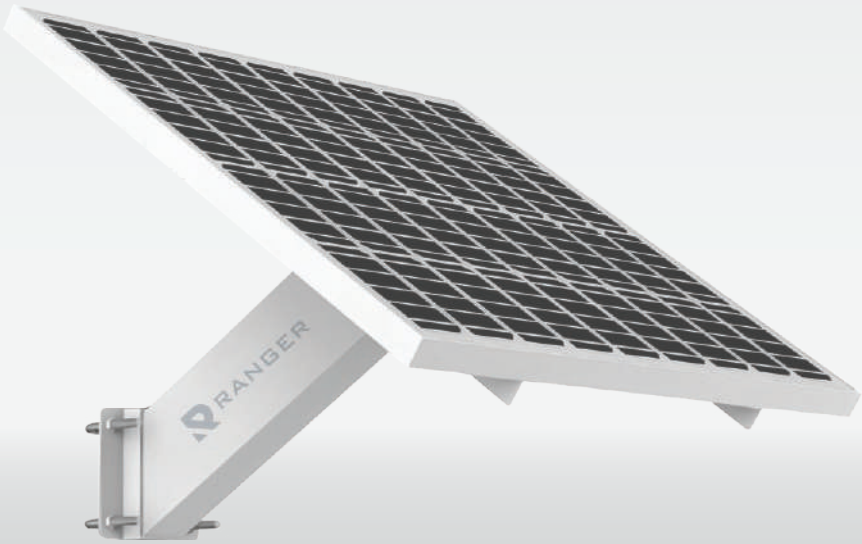
Solar kit with total time supported without charging*:

- 1 Bullet Camera + 1 Access Point - **Up to 32 hours**
- 1 4G PTZ Camera - **Up to 30 hours**
- 2 WIFI Bullet Camera + 1 4G Router - **Up to 27 hours**
- 1 WIFI Cruiser Camera + 1 4G Router - **Up to 29 hours**

**This data is based on ideal sunlight conditions. Actual working hours may vary depending on factors such as weather, shading, and system configuration.*



Mechanical Specifications	RG-SOLAR-SE120W-KIT
Solar Bracket	
Material	Welded cold-rolled steel
Installation method	Bracket assembled on-site, then clamped onto the rod body
Bracket horizontal inclination angle	45
Wind resistance level	≥10
Solar Panel	
Cell type	A-Grade double-sided solar cell
Power	120W
Power degradation	≤2% in the first year, ≤0.45% annually thereafter
Nominal voltage	18V
Open circuit voltage	24V
Nominal current	6.66A
Cell structure	Half-cut PERC cell structure, 36 monocrystalline cells, maximum power up to 135W, maximum conversion efficiency up to 21.45%
Surface treatment	Excellent glass and cell surface texturing technology for superior performance in low-light conditions
Load capacity	Certified for 2400Pa wind load and 5400Pa snow load, suitable for harsh environments
Current collection	More uniform current collection, reduced internal cell current thermal loss, aesthetically pleasing, suitable for roof installation
Cell technology	9-busbar photovoltaic cell, PID resistance guaranteed

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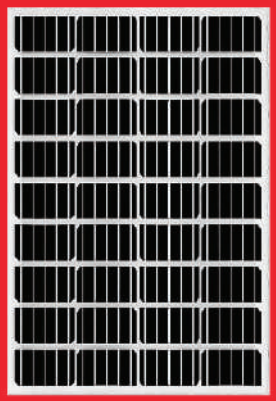
LiFePO4 Lithium Batttery	
Rechargeable	Yes
Battery type	Grade A Lithium Iron Phosphate Cell
Nominal capacity	50Ah
Charging voltage	14.6V
Minimum capacity	48Ah (Reserved for Protection)
Operating temperature	-10°C to 55°C
Energy	640Wh
Nominal Voltage	12.8V
Shipping Voltage	13-13.6V
MPPT Solar Charge Controller	
Maximum input current	10A
Rated voltage	12V
Maximum input power	150W
Maximum solar panel voltage	45V
Timer load output	5-Level Adjustable
Power consumption	High-Performance, Ultra-Low
Four-stage charging	MPPT, Boost, Equalization, Float
Automatic activation	When BMS Power is Cut Off by LVD
Day/Night threshold adjustment	Automatic
Rugged aluminum housing	IP67 waterproof
Electronic protection	Fully automatic
BMS	
Equip with	Communication function, it can monitor and control overcurrent, overdischarge, overcharge, charge and discharge overcurrent, balancing, overtemperature, undertemperature, sleep, capacity, etc
Material	Injection-molded seal enhances moisture resistance and component protection, extending product life
Continuous discharge current	10A
Continuous charge current	10A
Operating temperature	-20°C to 60°C

Kit Accessories Included

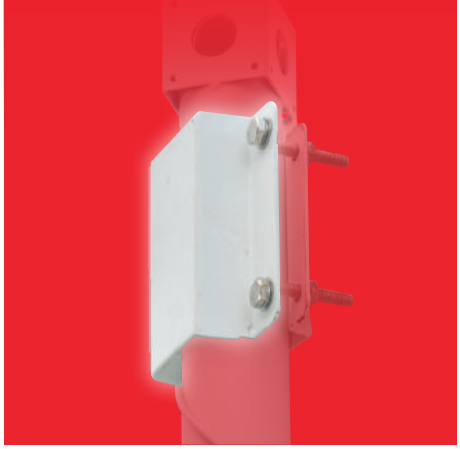
*All image and specification is subject to change without prior notice.

120W Mono Solar Panel



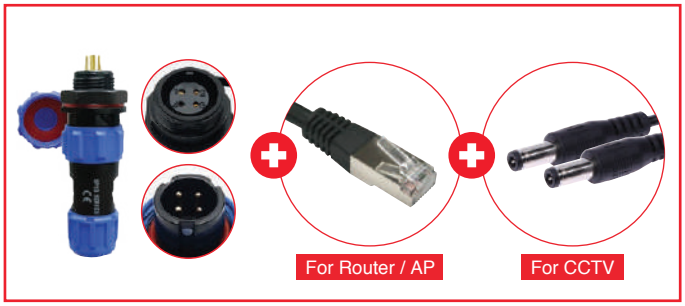
Lifepo4
Battery + Bracket

Bracket Plate
146*23*170mm



4x M8 Plate Rod Screw

4x M5 + 1x Hex Wrench



1x 4 Pin IP68 Waterproof Connector Cable for
2 CCTV connection & 4G Router / Access Point

Dimension Drawings (mm)

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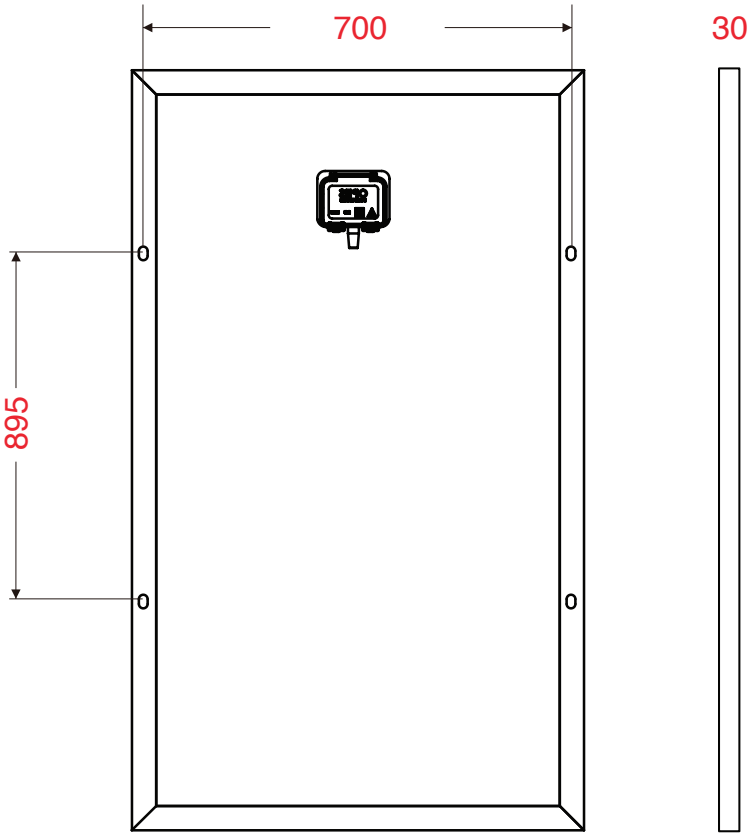

Ordering Info

Model
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