Solar Station with 150W Panel, 80Ah Battery and Controller

45MM-DS03

An off-grid, all-in-one Solar Power Supply System pairing a 150W solar panel with an 80Ah lithium battery pack (approx. 888Wh). Designed for a constant 13-16W (12V) load 24/7, it's ideal for CCTV or data systems in remote locations, particularly multiple PoE camera installations and/or wireless bridges daisy-chained over or around a hill.



Features and Benefits

- An MPPT smart charge controller with built-in surge protection maximises energy harvest from the solar panel, even in low-light or cloudy conditions, while protecting the system from power spikes.
- Higher-capacity output supports multiple PoE camera installations and/or wireless bridges daisy-chained over, or around, a hill.
- A powder-coated steel frame and battery box give a high level of weather protection for added longevity.
- A battery indicator shows current battery level, charging status, and electrical load at a glance, with 2 x 12V DC outputs (2.1mm plug) to power connected equipment.
- A wide operating temperature range of 0°C to 45°C for charging and -20°C to 60°C for discharging (15°C to 35°C recommended) keeps it performing reliably across harsh or variable site conditions.
- The panel's three-piece design (580 x 440 x 16mm per panel, 1360 x 580mm overall) delivers a larger energy-capturing surface while keeping each panel compact and easy to handle on site.

Note: This product is intended for use only with data bridges, access points and CCTV cameras. Any other use will void the product warranty.

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Matchmaster
For the Best

Specifications

Lithium battery

Battery Capacity	80AH/888WH
Reted Energy	888WH
Limited Charge Voltage	9V
Output Voltage	9V-12.6V (Depends on the percentage of battery level)
Maximum output Current	10A
Input interface type	2-pin quick connector (for batery switch)
Output Interface type	DC12V 5.5*2.1mm circular connector
Output Interface type (OEM)	DC5V type C, USB port (OEM optional)
Battery quantity	18650 Ternary lithium battery 3.7V 2000MA battery*120pcs
Battery bracket Dimensions	430x560x440mm
Protection Function	high/low temperature protection, overcharge protection, undervoltage protection

Solar Panel

Peak Power	150W (3pcs 50W)
Operating Voltage	9-12.6 V (Depends on the percentage of battery level)
Operating Current	0-10A (Follow the sunlight intensity)
Open Circuit Voltage	9.03V
Short Circuit Current	15A
Cell Conversion efficiency	≥26%
Output Interface type	2-pin quick connector (for batery switch)
Dimensions	580x440x16MM *3pcs

Operation and Maintenance Module

Open Circuit Voltage	12V Stably output
Charing input	Recommend DC12.6V 5A charging to solar power system
Battery life in rainy and cloudy days(no sunlight day)	Full power battery can working 5-10 days for normal 4G or wifi cameras
Indicator	Blue Flashing Indicator: Battery charging. Red Border Flashing Indicator: Delivering charge to connected devices.
Package size	880x220x530 mm
Waterproof	IP66 outdoor
Power cable	2pcs DC12V output (5.5*2.1mm round pin)
Operating Temperature	-40°C to 60 °C
Gross weight	22kg

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Package inside List	Solar panels : 50W*3pcs Battery bracket*1pc U type Stainless Steel Clamp*2pcs User manual book*1pc Screw