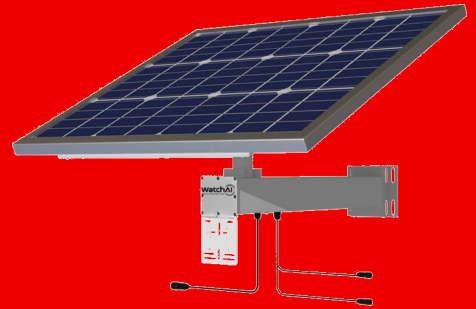


Solar Power System with Mounting Arm - 12V, 120W, 60Ah

Model: PS-60120



High-performance 120W solar power system with an integrated 60Ah (768Wh) LiFePO4 battery for reliable off-grid power. Ideal for CCTV, remote monitoring, outdoor IoT, and off-grid installation.

Key Features

- CCTV Solar Power Supply 120W / 60AH / 768WH solution
- Solar panel: 120W monocrystalline silicon solar panel
- Battery: 60AH 12.8V LiFePO4 battery, total 768WH
- MPPT solar controller, 3 x DC12V output ports
- Installation bracket for solar panel and battery
- Other accessories: battery mount, screws, DC cable, etc.
- Optional selection: RS485



Specifications

Solar Panel Specification	
Module packaging	Tempered glass / EVA / cell / EVA backplane
Solar silicon crystal	Mono-crystalline silicon
Crystalline silicon characteristics	High efficiency of strong light conversion
Cell size and quantity	210*70 / 36
Maximum output power	120W
Maximum operating voltage	20.52V
Maximum operating current	6.18A
Open circuit voltage	24.9V
Short circuit current	6.5A
Tolerance	3%
Maximum system open circuit voltage	1000V
Solar panel dimensions	910mm * 670mm * 30mm
Operating temperature range	-40 ~ 85 °C
Relative humidity	<90%
Frame thickness	0.88mm
Frame	Anodized aluminum alloy

Battery Specification	
Solution	MPPT (input maximum power tracking algorithm), constant voltage output
Battery capacity	12.8V / 60AH (768WH)
Charging indication	LED status indicator
Input interface	Photovoltaic aviation plug
Output interface	DC5.5mm diameter standard male plug, 2-way output
Output voltage	12V ±50mV
Output current	≤3A ±50mA (total of two outputs)
Discharge utilization	≤90%
Operating temperature	Charging: 0 ~ 45 °C Discharging: -10 ~ 55 °C (accuracy: ±1 °C)
Over-current protection	>4A (over-current protection for more than 3 seconds, green light flashes)

Overcharge and over-discharge protection	Over-discharge protection: <10V; Over-charge protection: >14.6V (accuracy: $\pm 0.1V$)
Output short circuit protection	Green light flashes, green light stays on after short circuit is removed
RS-485 communication	Output power, voltage, current and other information according to customer needs
Battery heating function	When photovoltaic input is available, heating starts when temperature is below 0 °C, and stops when temperature rises to 8 °C
Heating power	Maximum 15W
Storage temperature	-20 ~ 35 °C
Battery case dimensions	650mm * 98mm * 82mm
Product capacity	20% - 30%
Battery material	Lithium iron phosphate / LiFePO4 battery

Battery Life and Charging

Power off battery life	2 years (battery pack has no output after shutdown; power loss is self-discharge of battery cells, about 3%-5%/month)
Power on battery life	About 25 days (normal temperature, no load)
Load battery life	About 3 days (room temperature, no charging, mounted mobile camera sample + sound column measurement)
Recharge time (0~100% power)	Conditions: normal temperature, 120W photovoltaic panel, standard light duration 4~5 hours/day Without load: about 1 day With load: about 1.2 days

All-in-one Package

Size	925mm * 735mm * 230mm
Weight (include bracket and accessories)	17KG
Content	1 x Solar panel 1 x Battery case (inside with battery) with DC output connectors 1 x Bracket for solar panel & battery case 1 x U-shape mount for pole installation 1 x Screws pack

Compliance

Certifications	RCM
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