

CCTV SOLAR POWER SUPPLY SYSTEM

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Model CS3015 (30W15AH12.8V)**CS3015 | 30W15Ah 192Wh Solar Power System**

The CS3015 30W Solar Power System is equipped with a 15Ah (192Wh) LiFePO₄ battery, providing reliable and stable off-grid power for small outdoor applications.

Designed with a compact structure for easy installation, it is ideal for powering CCTV cameras, 4G routers, and remote monitoring devices. Built for durability and long-term performance, the system ensures continuous and uninterrupted power supply in areas without grid access.

Perfect for residential, garden, and small-scale surveillance or monitoring applications.

Features

- Solar-Powered & Plug-and-Play – No external power required; install anywhere with stable, reliable output.
- Durable & Safe Design – Anti-microcrack, low internal loss, high safety, and low-temperature performance.
- Flexible & Easy Installation – U-shaped clamps; compatible with various poles; no drilling required.
- Remote Monitoring Support – RS485 communication for easy system management.
- Smart Energy Management – Automatically optimizes power generation and storage for maximum efficiency.
- IP65 Battery Protection – Fully weatherproof for outdoor installation.
- High-Quality Materials – Corrosion-resistant frame, stainless steel screws, and waterproof connection cables.
- Anti-Vibration Structure – Reduces impact on optical instruments and video image quality in pole/tower setups.

Specification

CS3015 (15Ah12.8V 192Wh)

Solar Panel Spec

Communication interface	Mono-crystalline silicon
Maximum Power	30W (1000W/m ² standard lighting test conditions)
Open circuit voltage	22VDC
Maximum current	4.4A
Solar Panel Dimensions	530mm*350mm*25mm

Battery Spec

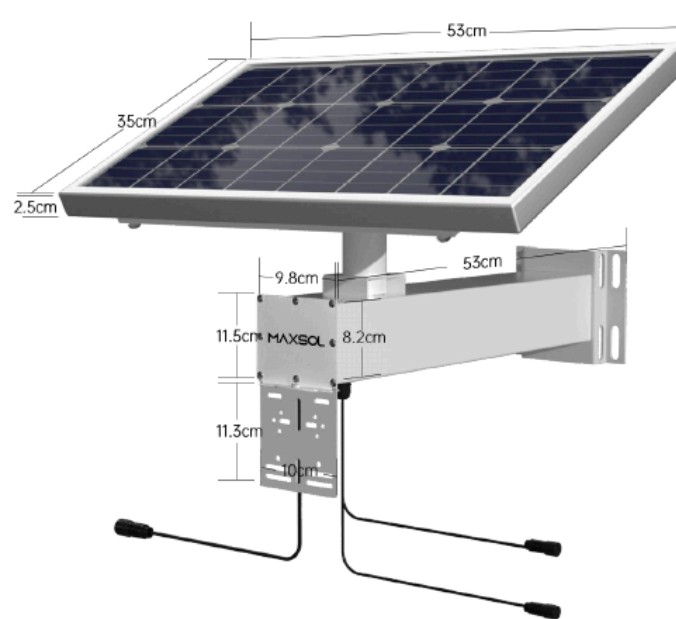
Solution	MPPT (input maximum power tracking algorithm), constant voltage output
Battery capacity	12.8V/15AH (192WH)
Charging indication	LED status indicator
Charging Voltage	15-18VDC
Maximum charging current	6A
Output Voltage	12±0.2VDC
Maximum output current	3A (total of 2 outputs)
Battery Pack overcharge voltage	14.6VDC
Battery Pack over-discharge voltage	10VDC
Input Interface	Photovoltaic aviation plug
Output Interface	DC5.5mm diameter standard male plug, 2 outputs in total
Power on power consumption	0.5±0.1W (normal temperature, no load when powered on)
Waterproof Level	IP65
Storage Temperature	0~45°C
Operating Temperature	Charging: -10~50°C; Discharging: -10~60°C
Battery Case Dimensions	IP65, 500mm*98mm*82mm

Battery Life

Shelf Life (Power Off State)	Up to 2 years (No output after shutdown; self-discharge rate approx. 3%~5% per month under normal conditions)
Standby Time (No Load, Powered On)	Approx. 25 days (At normal temperature conditions)
Operating Time (With Load)	Approx. 1~2 days (Room temperature, no solar charging, with typical mobile CCTV camera load)
Recharge Time (0~100%)	Approx. 1 day under standard conditions (30W solar panel, 4~5 peak sunlight hours per day, normal temperature)

All-in-One Package

Size	720*360*225MM
Weight (Include bracket and accessories)	8.05KG
Certificate	CE, MSDS, UN38.3, DGM, Sea Transportation Certificate



Widely Used Applications

The Solar Power Supply system is widely used in various outdoor surveillance and communication applications, including:

CCTV surveillance systems

Solar-powered security and monitoring systems

4G/5G wireless routers and communication devices

Remote and off-grid monitoring stations

Road and traffic surveillance projects

Construction site security systems

Farms, plantations, and agricultural monitoring

Industrial and perimeter security applications

Smart city and infrastructure projects



Source notes

The source dimension drawing and specification table contain inconsistent measurements. The source drawing and tabulated dimensions are retained pending manufacturer confirmation.



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