CCTV SOLAR POWER SUPPLY SYSTEM

# CCTV Solar Power Supply System

**Model** CS3015 (30W15AH12.8V)

CS3015 I 30W15Ah 192Wh Solar Power System

The CS3015 30W Solar Power System is equipped with a 15Ah (192Wh) $LiFePO_4$ 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

MAXSOL Philippines

CS3015 (15Ah12.8V 192Wh)

## Solar Panel Spec

| | |
|---|---|
| Communication interface | RS485 (Optional) |
| Maximum Power | 30W (1000W/㎡ 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℃ |
| Operating Temperature | Charging: -10~50℃; Discharging: -10~60℃ |
| Battery Case Dimensions | IP65, 500mm*98mm*82mm |

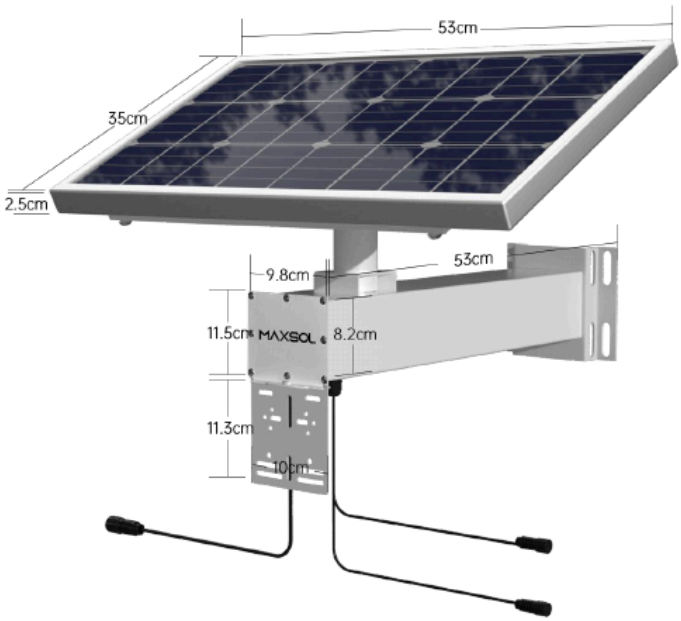
## Battery Life

| | |
|---|---|
| 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. 20 days (At normal temperature conditions) |
| Operating Time (With Load) | Actual operating time depends on the connected load, battery capacity and operating conditions. For reference, the system runtime can be estimated by dividing the usable battery capacity (Wh) by the total load power (W), assuming no solar charging. |
| Recharge Time (0–100%) | Approx. 2–3 days under standard sunlight conditions (4–5 peak sun hours per day, normal temperature). Actual charging time may vary depending on sunlight intensity, system efficiency and power consumption. |

## All-in-One Package

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

# Dimension




## 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

# Contact us

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