

## 80W 45AH 576Wh Solar System

Model: CS8040



With High-Efficiency Mono Solar Panels And A LiFePO4 Battery, The Maxsol Solar Power System Provides Stable Power For Outdoor Cameras And Network Bridges. Ideal For Off-Grid Areas, It Eliminates Cabling And Reduces Costs. Suitable For Devices With Total Power Consumption Under 20W.

- CCTV Solar Power Supply 80W45AH 576WH Solution
- Solar panel: 80W monocrystalline silicon solar panel
- Battery: 45AH12.8V LifePO4 Battery, total: 576WH
- MPPT Solar Controller, 3\*DC12V Output Port
- Installation Bracket for Solar Panel and Battery
- 3\*DC12V OUT
- Other accessories: Battery Mount, Screws, DC Cable, etc
- Optional Selection: RS485

Solar Panel Specification

Model	CS8040 (80W45AH12.8V)
STC peak power	80W (single piece)
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*52.5/36
Maximum output power	80W
Maximum operating voltage	21.1V
Maximum operating current	4.10A
Open circuit voltage	24.0V
Short circuit current	4.59A
Tolerance	3%
Maximum system open circuit voltage	1000V
Solar Panel Dimensions	670mm*700mm*25mm
Product weight	3.415KG
Operating temperature range	-40~85℃
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/30AH (384WH)
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℃ Discharging: -10~55℃ (accuracy: ±1℃)
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: ±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℃, and stops when temperature rises to 8℃
Heating power	Maximum 15W
Storage temperature	-20~35℃
Battery case Dimensions	500mm*98mm*82mm
Weight	≈2.5kg
Product capacity	20%-30%
Battery material	Lithium iron phosphate/LifePO4 battery
Battery Capacity	512WH, 12.8V/40AH
Power on power consumption	0.5±0.1W (normal temperature, no load when powered on)
Waterproof level	IP65

## 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, 60W 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	730mm*520mm*240mm
Weight (Include bracket and accessories)	11.5KG





## Maxsol Technologies Limited

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