

CCTV SOLAR POWER SUPPLY SYSTEM

CCTV Solar Power Supply System

Model CS400150



CS400150 | 400W150Ah 1920Wh Solar Power System

The CS400150 400W Solar Power System is equipped with a 150Ah (1920Wh) LiFePO₄ battery and an integrated IP65-rated outdoor enclosure, providing reliable and stable off-grid power for outdoor surveillance and remote monitoring applications.

The weatherproof distribution box houses the MPPT solar charge controller and LiFePO₄ battery system, ensuring safe operation and efficient solar charging.

Features

- CCTV Solar Power Supply 400W/150Ah 1920Wh Solution
- Battery: 150Ah 12.8V LiFePO₄ battery, 1920Wh
- DC output: 4 × DC11–14V 15A (max); 4 × DC12V 5A (max)
- Solar panel: 400W monocrystalline silicon solar power
- 30A MPPT solar controller
- IP65 outdoor cabinet, 500 × 400 × 200 mm

Specification

CS400150 (150Ah12.8V 1920Wh)

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Solar System

Batteries	Class A LiFePO4 batteries 150Ah12.8V 1920Wh
Solar Controller	30A MPPT 12V Controller
Solar Panel	2pcs* 200W Mono Solar Panel
DC Output	4pcs* DC11~14V 15A (Max); 4pcs* DC12V5A (Max)

Solar Panel Spec

STC peak power	200W *2PCS
Material	High-efficiency mono-crystalline silicon cell, high-strength aluminum alloy frame
Panel materials	Super white toughened glass
Life	25years
Maximum power (Pm)	200W
Photoelectric Conversion Efficiency (%)	≥20.4%
Voltage at Pmax(Vmp)	18V
Current at Pmax(Imp)	10.96A
Open-Circuit Voltage of Solar Panel (V)	22.0V
Short circuit current - ISC (A)	11.62A
Module dimensions (L×W×H)	1480*670*30mm
Module weight (KG)	11 Kg*2PCS
Frame material and dimensions (mm)	Anodized aluminum alloy 1.2mm
Module packaging	Tempered glass/EVA/cell/EVA backsheet

Solar Controller Spec

Max Charging Current	30A
System Voltage	12V/24V automatically detect
Low Voltage Disconnect (LVD)	10.8~11.8V/21.6~23.6V, SOC1~5(default: 11.2/22.4V)
Low Voltage Reconnect (LVR)	11.4~12.8V/22.8~25.6V (default: 12.0/24.0V)
Overcharge Protect	15.8/31.3V
Max volt on PV terminal	55V@-20°C;50V@25°C
Max PV input power	390/780W

Day/Night threshold	3.0~20.0V (default: 8.0/16.0V)
Day/Night delay time	0~30min (default: 0min)
MPPT tracking range	(Battery Voltage + 2.0V) ~Voc*0.9 *2
Output Current	30A
Max tracking efficiency	>99.9%
Max charge conversion	98.0%
Dimensions(mm)	182*187.5*64
Weight	1.3kg
Self consumption	≤8mA(12V)

Battery Spec

Battery Capacity	12.8V/150AH (1920WH) LiFePO4 battery
Rated Capacity	150Ah
Rated Voltage	12.8V
Maximum Charging Voltage	14.6 ± 0.2V
Discharge Cut-off Voltage	10 ± 0.2V
Standard Charging Current	15A
Standard Discharging Current	15A
Maximum Continuous Charging Current	30A
Maximum Continuous Discharging Current	30A
Maximum Peak Discharging Current	90A
Cycle Life	>2000 cycles
Weight	≤ 12kg
Operating Temperature	Charging: 0°C ~ 55°C; Discharging: -10°C ~ 60°C

Battery Protective Board

Output Voltage	8.4V~14.6V
Operating Current	≤30A
Operating Temperature	Operating Range: -20°C~65°C; Over-temperature Recovery Temp: 48°C
Operating State Self-Consumption	≤50 μA
Overcharge Protection Voltage	3.65V±0.05V
Overcharge Recovery Voltage	3.55V±0.10V
Overvoltage Protection Delay	0.5~1.5s
Overcharge Protection Current	25~35A
Overcurrent Protection Delay	0.5~1.5s
Over-discharge Protection Voltage	2.1V±0.100V

Over-discharge Recovery Voltage	2.4V±0.100V
Over-discharge Protection Delay	0.5–1.5s
Over-discharge Protection Current	75–90A
Short Circuit Protection Delay	100~600μs
Short Circuit Current	300A±50A
Short Circuit Recovery Condition	Disconnect the load

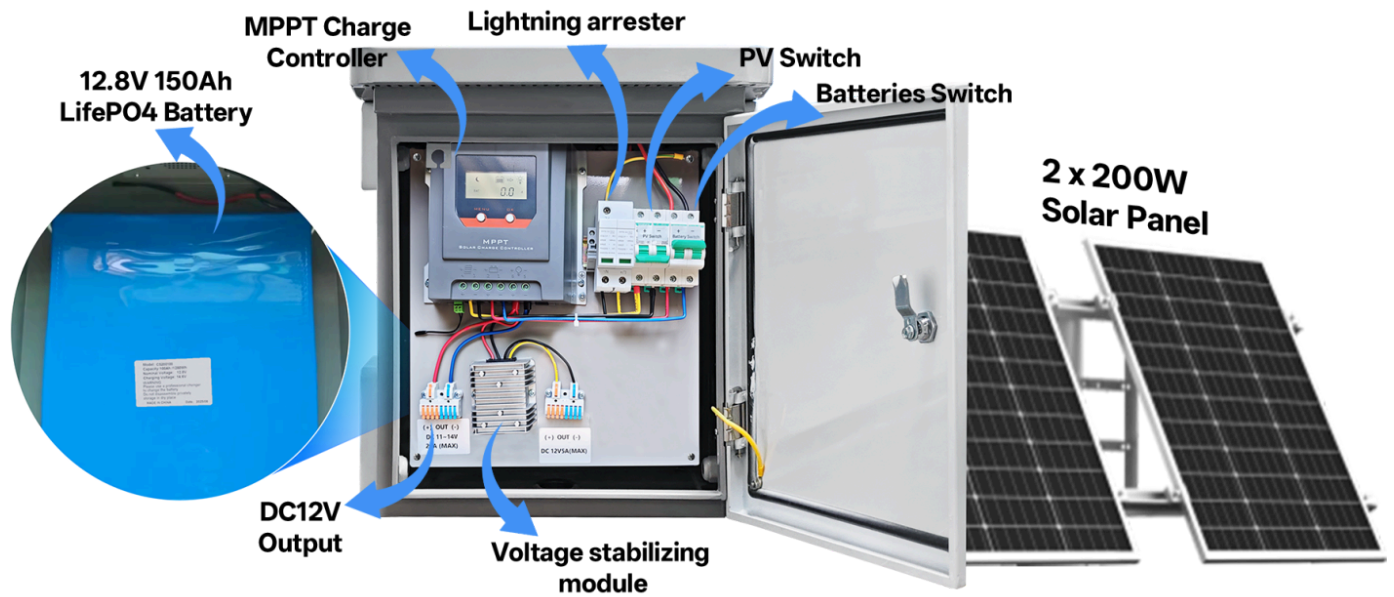
Outdoor Cabinet Spec (IB542)

Dimensions (length x width x height)	500*400*200mm
Weight (kg)	11.5
Material	Hot-dip galvanized steel sheet
Thickness	1.2mm
IP Level	IP65
Color	White+Gray
Surface Treatment	Electrostatic Spraying
Door	1
FAN	(Optional)
Waterproof Connector	4PCS
IP Camera/AP/CPE Mounting Plate	4PCS
Key	1PCS
Grounding Connector	1PCS

All-in-One Package

Size and Weight	Battery Cabinet Size: 460*250*535MM; 29.5KG 200W Solar Panel Size: 1520*710*65MM; 11.00KG Solar Bracket(SPB300): 600*500*300MM; 13.00KG
Weight (Include bracket and accessories)	78KG
Content	2* Solar Panel 1* Cabinet (Inside with battery) with DC output connectors 2* Solar Panel Bracket 3 * Pole mount kit 1* Screws pack 1* QIG
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





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