

DH-PFM363L-SD1

Integrated Solar Power System (without Lithium Battery)



- Integrated die casting casing
- Aluminum alloy frame
- Monocrystalline silicon solar panel
- Remote monitoring with app
- Maximum Power Point Tracking (MPPT) charging controller
- RS-485 communication
- Electronic protection
- Non-standard PoE



Series Overview

This integrated solar power system consists of solar panels, Maximum Power Point Tracking (MPPT) charging controller, and mounting brackets. It provides stable power supply for devices such as IP cameras with high conversion charging controller. Compared with conventional solar power systems, it is compact, portable, and easy to install, disassemble and maintain.

Functions

Integrated die casting casing

Compact structure integrated with solar panel and charging controller to improve the appearance, installation, and maintenance of the system.

Monocrystalline silicon solar panel

Adopt efficient monocrystalline silicon solar panel to greatly improve light absorbance efficiency and power generation performance with dusky light.

Remote monitoring with app

With Dahua cameras, you can remotely monitor the system operation status and receive alarm notifications for low battery in real time.

Maximum Power Point Tracking (MPPT) charging controller

MPPT controller helps significantly improve the energy utilization efficiency of the system, and raise the charging efficiency by 10%–30% compared with conventional PWM controller.

RS-485 communication

RS-485 port and standard Modbus protocol can satisfy communication requirements in various scenarios.

Electronic protection

Comprehensive electronic protection: Current limiting, short circuit, and reverse current protection of the solar panel; reverse connection, overvoltage, over-discharge, and over-temperature protection of the lithium battery; overload and short circuit protection.

12.8V DC-PoE power supply

After the battery is installed, it can be powered with 12.8V DC non-standard PoE device, making the wiring simpler.

Scene

General application

Suitable to be installed in places such as scenic spots, courtyards, roads, farms, communities, and small construction sites.

Small business application

Applicable to scenarios where power is difficult to obtain, such as mining areas, oil/power transmission lines, forest fire prevention, and water conservancy.

Special application

Temporary monitoring of mobile toilets, mobile garbage stations, outdoor small-scale competitions, and more.

Technical Specification

Solar Panel

| | |
|-----------------------|-------------------------|
| Type | Monocrystalline silicon |
| Max. Power | 120W |
| Solar Cell Efficiency | 21% |
| Max. Mechanical Load | 5400Pa |

Protection

| | |
|-----------------------------------|---|
| Over-discharge Protection Voltage | 11.1V DC |
| Low Temperature Charging | ≤-10°C (14°F) |
| Low Temperature Discharging | ≤-20°C (-4°F) |
| Grade | IP66 |
| Others | Over temperature, overvoltage of the battery, overload, and short circuit |

Port

| | |
|--------------------|---|
| Power Output | Φ5.5 mm × Φ2.1 mm × 12mm (Φ0.22" × Φ0.08" × 0.47") |
| RS-485 to Ethernet | 1 |
| Network | 1 RJ-45 1 non-standard PoE |

General

| | |
|----------------------|---|
| Main Body Material | Die casting aluminum |
| Installation | Pole mount, installed on 76 mm to 96 mm (Φ3.0"-Φ3.78") poles |
| Adjustable Angle | Horizontal: 0°-360° Vertical: -75°-80° |
| Product Dimensions | 1149.5 mm × 670.0 mm × 455.2 mm (45.26" × 26.38" × 17.92") |
| Packaging Dimensions | 1351 mm × 796 mm × 378 mm (53.19" × 31.33" × 14.88") |
| Packaging Method | 1 pc in each carton |
| Net Weight | 23.5 kg (51.81 lb) |
| Gross Weight | 33 kg (72.75 lb) |

Environment

| | |
|-----------------------|---|
| Operating Altitude | <3000 m (9842.5 ft) |
| Applicable Area | Areas with daily solar radiation >4.5 h |
| Operating Temperature | -20°C to 60°C (-4°F to 140°F) |
| Operating Humidity | <95% (RH) |
| Storage Temperature | 0°C to 40°C (32°F to 104°F) |
| Storage Humidity | <95% (RH) |

Certification

| | |
|----------------|--|
| Certifications | CE: EN61000-6-2, EN61000-6-4 FCC: FCC Part 15 Subpart B |
|----------------|--|

Ordering Information

| Type | Model | Description |
|--------------------|------------------|---|
| Solar Power Series | DH-PFM363L-SD1 | Integrated Solar Power System (without Lithium Battery) |
| Accessories | / | Camera Mounting Plate |
| | PFM372-L45-4S14P | Integrated Solar Lithium Battery |

Accessories

Included



Camera Mounting Plate

Optional

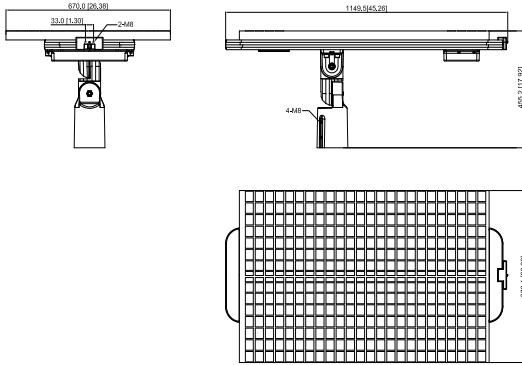


PFM372-L45-4S14P
Integrated Solar Lithium Battery

Package Information

| | |
|-----------------------|---|
| Camera Mounting Plate | 1 |
| S3.0L Wrench | 1 |
| S4.0L Wrench | 1 |
| S6.0L Wrench | 1 |
| S10.0L Wrench | 1 |
| M8*20 Screws | 2 |
| M4*12 Screws | 5 |

Dimensions (mm/inch)



Application

