

DH-PFM378-B100-WB

Integrated Solar Power System (without Lithium Battery)



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.

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

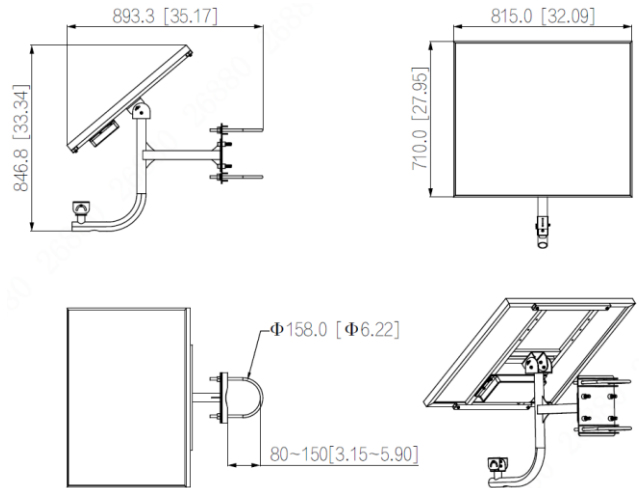
Temporary monitoring of mobile toilets, mobile garbage stations, outdoor small-scale competitions, and more.

Technical Specification	
Solar Panel	
Type	Monocrystalline silicon
Max. Power	100W
Output Voltage	18.8Vdc
Output Interface	CSA standard M15 2-pin water-proof plug(female)
Structure	
Bracket Material	Q235 steel / aluminum
Surface Treatment	Hot dip galvanizing / plastic spraying / welding
Bracket Color	White
Adjustable Angle of Bracket	20°/40°/60°(horizontal)
Installation	Pole mount, installed on 80mm to 150mm poles
Product Dimensions	815mmx846.8mmx893.3mm (32.1"x33.3"x35.2")
Net Weight	21.5kg(47.40lb)
Environment	
Operating Altitude	<3000m
Operating Area	Areas with daily solar radiation >4 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)
Compatibility	
Power Consumption of 4G Camera	DC12V, average power consumption<6W (Recommend IPC-HFW3241DF-AS-4G)
Battery selection	PFM372-L45-4S14P

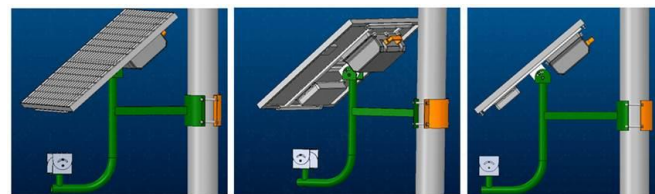


IPC-HFW3241DF-AS-4G
4G Bullet Network Camera

Dimensions(mm)



Application



Accessories

Optional:



PFM372-L45-4S14P
Integrated Solar Lithium Battery