

DH-PFE220-12CM-M120

Integrated Solar System (Without Lithium Battery)



Series Overview

The Integrated Solar Power Supply System reliably provides stable power to devices when there is no mains power supply available. It is easy to install and use, and is highly durable and reliable.

Technical Specification

System

Output Voltage	12.8 VDC (10.8 VDC–14 VDC)
Output Current	5 A
Power Consumption	≤1 W
Charging Method	MPPT

Solar Panel

Type	Monocrystalline silicon
Max Power	120 Wp
Efficiency	0.19
Operating Voltage	21.85 V
Operating Current	2.75 A

Battery

Compatible Battery Models	DH-PFE320-LP1207
Max Connected Batteries	4
Battery Type	Lithium iron phosphate
Nominal Capacity	7.8AH (99.84WH)
Nominal Voltage	12.8 VDC
Standard Charge Current	1.6 A
Max. Charging Current	8 A

- Integrated installation, easy to install and stable and reliable.
- IP66 rated.
- Supports automatic auxiliary heating function (heating starts at 0 °C and closes at 5 °C), ensuring operation in low-temperature areas.
- Supports obtaining battery data information.
- The indicator light shows the device status in real time.
- The number of connected batteries can be freely adjusted, and up to 4 matching batteries can be connected.
- Compatible with few models of Dahua wireless bridge installation.
- Maximum Power Point Tracking (MPPT) charging controller.



Protection

Protection	IP66
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Port

Power Output Port	2 power output ports; Φ5.5 mm × Φ2.1 mm × 10 mm (Φ0.22" × Φ0.08" × 0.39")
RS-485 Port	1
USB Port	1

Indicator

Indicator	1 × SYS Indicator; 1 × PV Indicator; 4 × BAT Indicator
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Structure

Main Body Material	Photovoltaic panel frame: aluminum alloy Battery compartment: Q235 Bracket: Q235
Installation Method	Column shaped vertical pole (Φ120 mm–160 mm)
Adjustment Angle	Supports adjusting the angle to 15°/ 25°/ 35°/ 45°
Product Dimensions	920 mm × 832 mm × 840.1 mm (36.22" × 32.76" × 33.07") (L × W × H)
Appearance Color	White
Net Weight	23.5 kg (51.81 lb)

Environment

Operating Altitude	≤3,000 m (9,842.52 ft)
Applicable Area	The device needs to be exposed to direct sunlight for at least 3.5 hours under standard lighting intensity to ensure it operates normally.
Operating Temperature	Charging: –20 °C to + 50 °C (battery auto heating at 0 °C) (–4 °F to +122 °F) Discharging: –20 °C to + 55 °C (–4 °F to 131 °F)"

Operating Humidity	10%–90% (RH)
Storage Temperature	–20 °C to +45 °C (–4 °F to +113 °F); the storage time is less than 3 months. –20 °C to +20 °C (–4 °F to +68 °F); the storage time is less than 12 months.
Storage Humidity	75% (RH)
Anti-corrosion Level	C2
Bracket Wind Resistance Rating	Level 10 (Data from Dahua Labs)

Certifications

Certifications	CE
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Ordering Information

Type	Model	Description
Integrated Solar System	DH-PFE220-12CM-M120	Integrated Solar System (Without Lithium Battery)

Dimensions (mm[inch])

