

DH-PFE220-12CM-M200

Integrated Solar System



- 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 8 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	2

Indicator

Indicator	2 × SYS Indicator; 2 × PV Indicator; 8 × BAT Indicators
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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	1,348.0 mm × 819.0 mm × 909.7 mm (53.07" × 32.24" × 35.82") (L × W × H)
Appearance Color	White
Net Weight	30 kg (66.14 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)

Scene

NA

Technical Specification

System

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

Solar Panel

Type	Monocrystalline silicon
Max Power	200 Wp
Efficiency	0.19
Operating Voltage	21.85 V
Operating Current	2.75 A

Battery

Compatible Battery Models	DH-PFE320-LP1207
Max Connected Batteries	8
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

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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-M200	Integrated Solar System

Dimensions (mm[inch])

