

# PFM372-LS20-H

## Lithium Battery



### System Overview

The Lithium Battery is a highly durable energy source that is used in integrated solar energy power supply systems. It supports CCTV monitoring 4G cameras to form a small off-grid monitoring solution, and enables continuous monitoring deployment even in scenarios without networks and electricity. It is used as a storage unit in power supply systems, making it a complete all-in-one energy solution.

### Technical Specification

#### Function

Type	Ternary lithium battery
Rated Charging Current	4 A
Rated discharge current	4 A
Operating Voltage	10.8 VDC
Internal Resistance	≤ 180 mΩ
Nominal Capacity (20°C/68°F, 5 h)	20 Ah
Maximum Charging Voltage	12.6 VDC
Max. Charging Current	10 A
Max. Discharge Current	10 A
Battery energy	216 Wh (10.8 V/20 Ah)
Battery Life	More than 500 cycles
Standard Backup Time (20°C)	Backup time (h) = 216 Wh/total load power consumption (W) For example, the total load power consumption is 3 W, then backup time is 216 Wh/3 W = 72 h

#### Controller

Type	MPPT
Operating Voltage	12 VDC

- Sturdy structure built of Q235 steel, with IP65 certification.
- Auto-heat function activates in low temperatures to ensure the continuous, stable operation.
- UN38.3 certified battery guarantees the safety and quality of the device.
- \*UN38.3 certified battery passed high and low temperature cycle test, vibration test, impact test, high simulation, 55 °C external short circuit test, overcharge test and forced discharge test.
- Lithium battery has a longer cycle life than traditional lead-acid battery.
- CE, FCC, and UKCA certified.
- Protection against overcharge, over-discharge and short circuits.
- Adapts easily to the Integrated Solar Panel System (DH-PFM378-B60-W).

Rated Charging Current	10 A
Rated discharge current	10 A
MPPT Tracking Efficiency	≥ 99%
Communication Mode	RS485
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Rated Charging Power	130 W
Over-discharge Protection Voltage	9.3 VDC
Others	Over-temperature ,over-discharge, over-voltage and low-temperature protection of battery; overload and short circuit protection of load.

#### Port

Type	CSA authorized M15 2-core waterproof connector × 1, 5521 DC Voltage output port × 1, RS-485 connector × 1
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#### General

Main Body Material	Q235 steel
Product Color	Grayish white
IP Rating	IP65
Packaging Method	1 pc in each carton
Product Dimensions	211.0 mm × 212.6 mm × 100.0 mm (8.31" × 8.37" × 3.94")
Packaging Dimensions	350 mm × 245 mm × 148 mm (13.78" × 9.65" × 5.83")
Net Weight	3.4 kg (7.50 lb)
Gross Weight	4 kg (8.82 lb)

## Environment

Operating Temperature	Charge: -20 °C to +45 °C (-4 °F to +113 °F) Discharge: -20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	45%RH~85%RH
Storage Temperature	1 month: -20 °C to +60 °C (-4 °F to +140 °F) 3 months: -20 °C to +45 °C (-4 °F to +113 °F) 3-12 months: -20 °C to +20 °C (-4 °F to +68 °F)
Storage Humidity	< 75% (RH)
Maintenance	Recharge every 3-6 months

## Certifications

Certifications	CE: EN IEC61000-6-4, EN IEC61000-6-2 FCC: 47 CFR Part 15, Subpart B UKCA: EN IEC61000-6-4, EN IEC61000-6-2
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## Ordering Information

Type	Model	Description
Solar Series	PFM372-LS20-H	Lithium Battery

## Dimensions (mm[inch])

