

Residential Energy Storage System Specification

Product Type: Stackable Residential Energy Storage System

Rated Power: 2.4 kW

Battery Capacity: 5.12 kWh (LiFePO4)



Product Overview:

This system is a stackable all-in-one residential energy storage solution integrating a bidirectional inverter and a LiFePO4 battery. It is designed for grid-connected and backup applications and suitable for outdoor installation.

Key Features:

- Stackable modular design
- IP65 protection rating
- UPS-level backup with transfer time <20 ms
- Mobile App monitoring and control
- Communication interfaces: CAN, RS485

Battery Specifications:

- Battery type: LiFePO4
- Nominal voltage: 51.2 V
- Nominal capacity: 100 Ah

Operating Conditions:

- Inverter operating temperature: -20°C to +55°C
- Battery operating temperature: -10°C to +50°C

Safety and Compliance:

- UN38.3 certified
- MSDS available