

HORIZON SERIES

Residential Energy Storage – Smart. Scalable. Resilient.

51.2V 100Ah
51.2V 200Ah



Durable & Weatherproof Design

- Built with high-safety LiFePO₄ chemistry and enhanced with a gas-aerosol fire suppression layer
- Rated IP65 for both indoor and outdoor installation, even in exposed environments
- Optional heating function supports operation in harsh winter climates

Modular & Scalable Configuration

- Ultra-thin profile (180–220mm) allows wall or floor installation without clutter
- Expand up to 12 units in parallel, easily scaling to over 120 kWh
- Designed for self-consumption, backup, and off-grid hybrid inverters

Intelligent Battery Management

- Advanced BMS ensures system safety via cell balancing and full-spectrum protection: overvoltage, overcurrent, and thermal control
- Remote monitoring and firmware updates via RS485 / CAN for smooth system integration

Installer-Ready Convenience

- Plug-and-play setup with detachable front panel simplifies installation and servicing
- Built-in display provides clear diagnostics and status at a glance
- Two model options: 5.12 kWh and 10.24 kWh, both with compact dimensions and clean design

Horizon Series Technical Parameters

Model	51.2V 100Ah	51.2V 200Ah
Nominal voltage	51.2 V	
Nominal capacity	100 Ah	200 Ah
Nominal energy @0.2C	5.12 kWh	10.24 kWh
Usable energy@0.2C	4.92 kWh	9.83 kWh
Operation voltage range	48 V ~ 56 V	
Charge voltage	56 V	
Float voltage	54.6 V	
Recommend charge current	≤50 A	≤100 A
Max. charge current	100 A	140 A
Recommend discharge current	≤50 A	≤100 A
Max. discharge current	100 A	200 A
Peak discharge current	120 A @ 15 s	220 A @ 15 s
Communication	RS485 / CAN	
Rating	IP65	
Cycle life	≥ 6 000 cycles, @25°C , @0.5C , @90% DOD, @70% EOL	
Weight	≈ 50 kg (110 lbs)	≈ 95 kg (209 lbs)
Dimensions (W*H*D)	520*610*180 mm	540*1050*180 mm
Operation temperature range	Normal version: Charge 0~50°C (32~122°F) Discharge -10~50°C (14~122°F) Heating version: Charge -10~50°C (14~122°F) Discharge -20~50°C (-4~122°F)	
Storage temperature	-10 ~ 45°C (≤3 months); 15 ~ 35°C (≤3 months)	
Relative humidity	5%~90% (No condensing)	
Install altitude	< 4000m	
Install location	Wall mounted / Floor mounted	
Installation	Indoor and outdoor without sunlight exposure	
Certification	UN38.3, CE	

* The actual product may differ slightly from the pictures.

* The specifications are subject to change without prior notice.