



APbattery

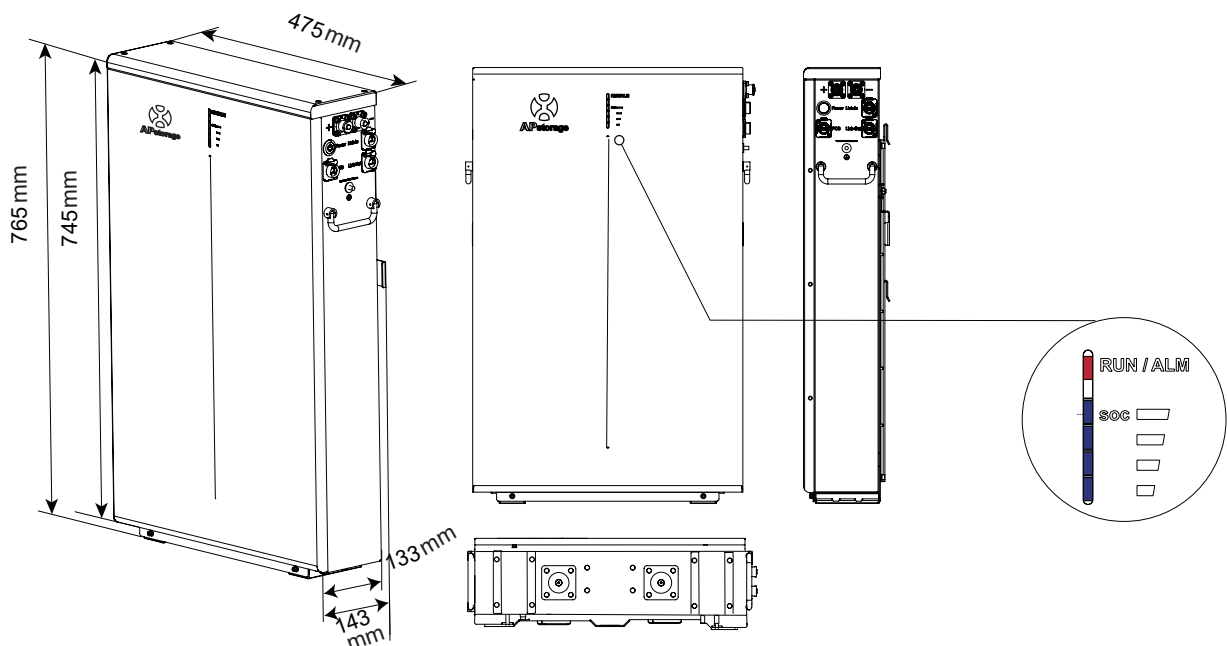
51.2V/6.5kWh

Compared with normal batteries, the APbattery is characterized with a better charging and discharging performance, longer life cycle and less self-discharging loss. The built-in BMS monitors the battery operation status and alarm to avoid operation out of limits. A maximum of 8 batteries can be connected in parallel to extend the energy and power of the energy storage system. The APbattery establishes the communication with the PCS via the CAN network port itself.

PRODUCT FEATURES

The battery is a 6.5kWh LiFePO4 pack. Battery coordinates with PV, power conversion system (PCS), Grid, DC Breaker and loads in the residential energy storage system.

DIMENSIONS



Datasheet | APbattery-51.2V/6.5kWh

Model

APbattery-51.2V/6.5kWh

General Specifications

TotalCapacity	128Ah
Total Energy	6.5kWh
Rated/Usable Capacity	118Ah ¹
Rated/Usable Energy	6.0kWh ¹
Nominal Voltage	51.2V
Operating Voltage	48V-57.6V
Max. Charging Current (Cell surface temperature)	-10°C≤T<0°C: 21.3A 0°C≤T<5°C: 32A 5°C≤T<15°C: 64A 15°C≤T<45°C: 104.2A 45°C≤T<50°C: 64A 50°C≤T<55°C: 32A
Max. Discharging current (Cell surface temperature)	-10°C≤T<0°C: 21.3A 0°C≤T<45°C: 104.2A 45°C≤T<50°C: 85.3A 50°C≤T<55°C: 32A
Peak Charging/Discharging Current	125A/3s
Max. Charging power	5kW (15°C-45°C)
Max. Discharging power	5kW (0°C-45°C)
Peak Charging/Discharging power	6.9kW/3s (SOC≥20%, 25°C)
Operating temperature range	-10°C-50°C
Recommended operating temperature	15°C-30°C
Storage conditions	-30°C--20°C & 45°C-60°C, within 7 days; -20°C - 45°C, within 6 months; Humidity: 5%-95%RH Within 6 month after each charge
RTE	94%, 0.2C charge/discharge 25°C
DOD	94.50%
Warranty	10 years standard
Cooling	Natural cooling
Dimension	W475*D133*H745 mm
Weight	56kg±1kg
Installation	Wall-mounted installation/floor standing installation
Ingress protection	IP55
Max. operation altitude	≤2000m
Cell safety certification	IEC62619/UL1973
PACK safety certification	IEC62619/CE/UL1973
UN transportation test standard	UN38.3+PI965(Sea)
Environmental protection certification	RoHS, REACH
Communication	CAN
Parallel connection	Max. 8 batteries

¹ Measuring conditions:

Ambient temperature: 25±2°C

Initial temperature detected by BMS: 25±2°C

Charging/discharging conditions:

· Charge: 0.2C CC/CV (charges at a constant voltage of 56.8V till the current reaches 2A)

· Discharge: discharge at 0.2C till the voltage reaches 44.8V)

· 0.2C current:25.6A

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