

APbattery

51.2V/6.5kWh

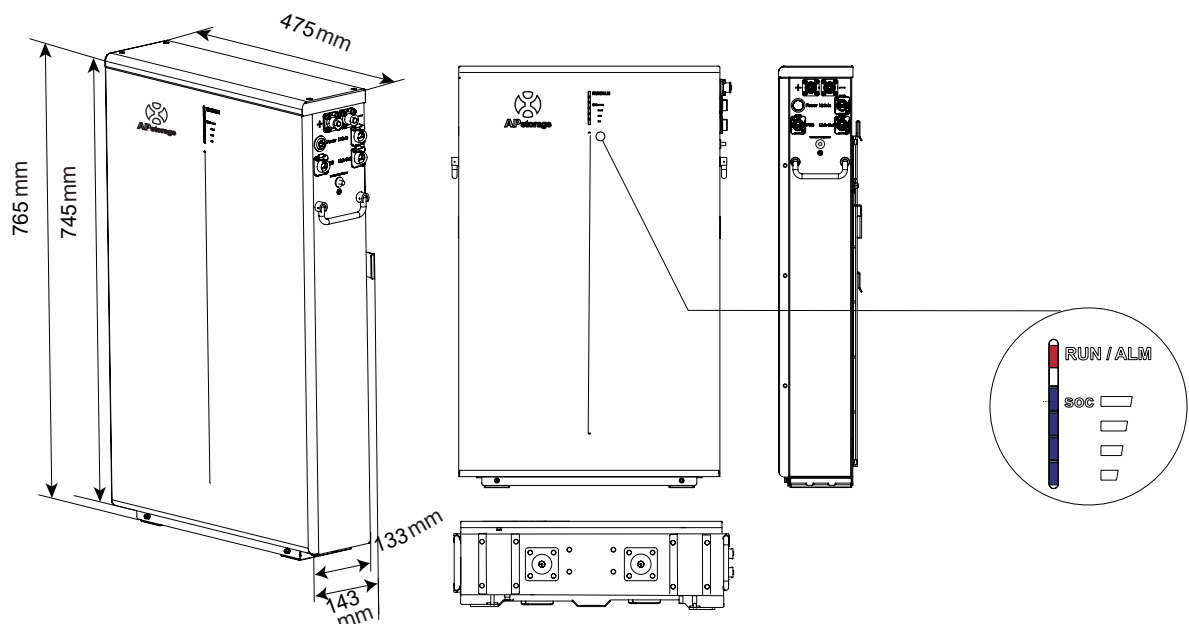
- ▶ Low voltage LiFePO4 battery
- ▶ CAN communication interface
- ▶ Build-in BMS
- ▶ Support up to 8 batteries parallel connections
- ▶ IP55
- ▶ Smart APP monitoring
- ▶ Super quiet power generation, no noise pollution

PRODUCT FEATURES

Power your home with electricity by linking the APbattery to a PCS from APsystems, converting solar-generated power into a perfect solution for residential and light commercial settings. The APbattery is designed for superior charging and discharging performance, featuring an extended lifecycle and minimal self-discharge. It communicates with the Power Conversion System (PCS) through its CAN network port, optimizing energy management.

Experience the power by being able to connect up to 8 APbatteries in parallel, enhancing energy and capacity charging for the 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 |
| Chemistry | LiFePO4 |
| 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% |
| 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 |
| Scalability | Max. 8 in parallel |

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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