APstorage

Safe and **Smart** Energy Management System



APbattery-51.2V/5.12kWh

- Max 32 Batteries in parallel, up to 160 kWh capacity
- Automatic Parallel Configuration
- Supports Charging Down to -5 °C
- Outdoor and Indoor Application (IP65)

Features

- Easy installation
- Slim & modern design
- Advanced BMS control
- Parallel capacity up to 160 kWh
- Black out and emergency back-up
- Self-heating for low ambient temperatures
- Remote monitoring with over-the-air updates
- Low voltage $LiFePO_4$ battery

2026/01/26 Rev1.1

Datasheet | APbattery-51.2V/5.12kWh

Model	APbattery-51.2V/5.12kWh
Region	EMEA
Rated Capacity	100 Ah
Rated Voltage	51.2 V
Rated Current	0.6C, 60 A
Working Voltage Range	43.2-58.4 V
Rated Energy	5.12 kWh
Usable Energy	4.61 kWh
Max. Parallel Quantity	Max. 32 Sets In Parallel , 163.84 kWh
Rated Charging Current	0.6C , 60 A
Rated Discharge Current	0.6C , 60 A
Battery Max. Charge/Discharge Power	3.07 kW/5.12 kW
Standard Charging Method	0.5C CC to 57.6 V; CV at 57.6 V Till Current Is 0.05C
Available SOC Range	0% ~ 100%
SOC Transportation Range	50%
Dimensions [W*D*H]	Width: 460(±5)mm/18.11 in Depth: 165(±5)mm/6.50 in Height: 652(±5)mm/25.67 in
Weight	50 kg
Operating Temperature[1]	Charging Temperature: 0°C~55°C or -5°C~55°C Discharge Temperature: -15°C~55°C
Storage Temperature[2]	-15°C ~ 55°C
RTE	94%
DOD	90%
Working Humidity	<95% RH (non-condensing)
Altitude[3]	≤2000 m
Communication	CAN, RS485, Dry Contact, Wi-Fi
PACK safety Certifications	IEC 62619 / IEC 61000
Cell safety Certifications	IEC62619 / UL1973
UN transportation test standard	UN38.3
Designed Cycle Life (25°C±2°C)	6000 Cycles
IP Rating	IP65
Cooling	Natural Cooling
Heating Power	230.4 W
Fire Protection/Self Extinguishing	Yes
Warranty	10 Years Limited Warranty
Environment Protection Standard	RoHS

1. Recommended operating temperature: 10 ~ 30°C.
2. Recommended Storage temperature: 10 ~ 30°C.
3. Recommended working height is less than 2000 m, and the max. working height is 3000 m.

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APstorage

Safe and **Smart** Energy Management System



APbattery-51.2V/10.24kWh

- Max 32 Batteries in parallel, up to 327.68 kWh capacity
- Automatic Parallel Configuration
- Supports Charging Down to -5 °C
- Outdoor and Indoor Application (IP65)

Features

- Easy installation
- Slim & modern design
- Advanced BMS control
- Parallel capacity up to 327.68 kWh
- Black out and emergency back-up
- Self-heating for low ambient temperatures
- Remote monitoring with over-the-air updates
- Low voltage $LiFePO_4$ battery

2025/07/28 Rev1.0

Datasheet | APbattery-51.2V/10.24kWh

Model	APbattery-51.2V/10.24kWh
Region	EMEA
Rated Capacity	200 Ah
Rated Voltage	51.2 V
Rated Current	0.6C, 120 A
Working Voltage Range	43.2-58.4 V
Rated Energy	10.24 kWh
Usable Energy	9.22 kWh
Max. Parallel Quantity	Max. 32 Sets In Parallel , 327.68 kWh
Rated Charging Current	0.6C , 120 A
Rated Discharge Current	0.6C , 120 A
Battery Max. Charge/Discharge Power	6.14 kW/6.14 kW
Standard Charging Method	0.5C CC to 57.6 V; CV at 57.6 V Till Current Is 0.05C
Available SOC Range	0% ~ 100%
SOC Transportation Range	50%
Dimensions [W*D*H]	Width: 550(±5)mm/21.6 in Depth: 165(±5)mm/6.50 in Height: 867(±5)mm/31.21 in
Weight	94 kg
Operating Temperature[1]	Charging Temperature: 0°C~55°C or -5°C~55°C Discharge Temperature: -15°C~55°C
Storage Temperature[2]	-15°C ~ 55°C
RTE	94%
DOD	90%
Working Humidity	<95% RH (non-condensing)
Altitude[3]	≤2000 m
Communication	CAN, RS485, Dry Contact, Wi-Fi
PACK Safety Certifications	IEC 62619 / IEC 62040 / IEC 61000
Cell Safety Certifications	IEC62619 / UL1973
UN Transportation Test Standard	UN38.3
Designed Cycle Life (25°C±2°C)	6000 Cycles
IP Rating	IP65
Cooling	Natural Cooling
Heating Power	230.4 W
Warranty	10 Years Limited Warranty
Environment Protection Standard	RoHS

1. Recommended operating temperature: 10 ~ 30°C.
2. Recommended Storage temperature: 10 ~ 30°C.
3. Recommended working height is less than 2000 m, and the max. working height is 3000 m.

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