

BATTERY SERIES



MODEL B

B-51.2V-100AH

BATTERY MODULE



Lithium Iron Phosphate Battery
LiFePO4

CLASS A

Battery Cells
of the highest class

PACEex

Professional and Smart BMS
PACE 100A

6000+

Battery Life Cycle
>70% capacity remaining

5120 Wh

Battery Capacity
51.2 V 100 Ah



Fast Charging
100 A

99%

Compatible with any Inverter
34 protocols for RS485/CAN

15

Up to 15 Modules in Parallel
up to 76.8 kWh in total

HATCAT

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PRODUCT SPECIFICATIONS

General Properties

Battery Module	B-51.2V-100AH
Nominal Capacity	5120 Wh 100 Ah
Nominal Voltage	51.2 V _{nom}
Battery Cell Technology	LFP (LiFePO4), class A
Cycle Life	The battery retains >70% SoH after 6000 cycles at 0.5C/0.5C, 25°C, 80% DoD
BMS	PACE P16S150A
BMS Protection	Over Voltage, Overload, Over/Under Temp., Short Circuit, Low Voltage, Overcurrent
Communication Port	RS485 / CAN / RS232
Safety Certificates	CE, IEC 62619-2017, EMC, MSDS, UN38.3

Charge Specifications

Recommended Charge Current	50 A (0.5C)
Fast Charge Current	100 A (1C, at 25°C ± 5°C)
Maximum Charge Current	100 A (1C)
Recommended Charge Voltage	< 58.4 VDC
BMS Charge Cut-Off Voltage	> 58.4 VDC

Discharge Specifications

Maximum Discharge Current	100 A (1C)
BMS Low Voltage Warning	44.8 VDC
BMS Discharge Cut-Off Voltage	43.2 VDC
Self Discharge	< 3% per month (BMS Off) ~2% per day (BMS On)

Environmental and Operational Specifications

Discharge Temperature	-20°C ~ 55°C
Charging Temperature	0°C ~ 55°C
Storage Temperature	-10°C ~ 40°C
Humidity	10% - 90% (non-condensing)
Temperature Sensor Quantity	4 for cells; 1 for BMS; 1 for ambient air

Physical Properties

Case Material and Protection Level	Powder-coated steel, IP51
Dimensions (L × W × H)	508×195×550 mm
Dimensions of Box (L × W × H)	625×285×660 mm
Weight (Net / Gross)	47.7 kg / 51.4 kg

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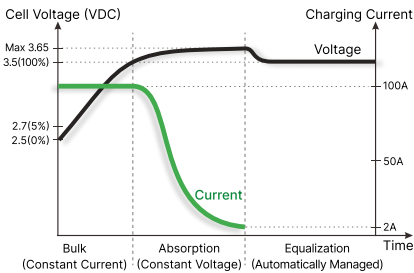
Note: Please read the safety and installation manual before using the product. We reserves the right of final interpretation. The specifications in this datasheet are subject to change without notice.



List of Supported Protocols

- CAN Protocols**
PACE, PYLON, GROWATT, AFORE, VICTRON, SE (SRNE), LUXPOWER, SRD (Sorotec), SMA, GOODWE, STUDER, SOFAR, PV, JINLAND (Solis), DIDU, SENERGYINV, TBB_LITHIUM, PYLON_V202/206, GROWATT_V109, MUST_V202, MEGAREVO, SUNSYNK
- RS485 Protocols**
PACE_MODBUS, PYLON, GROWATT, VOLTRONIC, SE (SRNE), LUXPOWER / V01 / V03, WOW, PYLON_F, XIONGTAO

Charging Curve



Battery Module B-51.2V-100AH EN
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