YOUR
SMART
ENERGY

Alphaess

BATTERY

SMILE-BAT-10.1P

RESIDENTIAL SERIES

CAPACITY

10.1 kWh Modular



+

Modular

Plug & play

Safe

Long lifespan

BATTERY

SMILE-BAT-10.1P

Model	SMILE-BAT-10.1P
Physical	
Battery Type	LFP (LiFePO4)
Country of Manufacturer	CHINA
Weight	90 kg
Dimension (W x D x H)	610 x 240 x 723 mm
IP Protection	IP21 (Indoor) / IP65 (Outdoor)
Warranty	10 Year Product Warranty
Electrical	
Energy Capacity	10.1 kWh
Usable Capacity	9.1 kWh
Rated DC Power	4.8 kW
Depth of Discharge (DoD)	90%
Nominal Voltage	48 V
Operating Voltage Range	45 ~ 54 V
Internal Resistance	≤ 15 mΩ
Operation	
Max. Charging Current	100 A
Max. Discharging Current	100 A
Operating Temperature Range	-10 °C ~ 50 °C*
Relative Humidity	0 ~ 95% (No Condensation)
BMS	
Modules Connection	1 ~ 6 in parallel
Capacity	10.1 / 20.2 / 30.2 / 40.3 / 50.4 / 60.5 kWh
Usable Capacity	9.1 / 18.2 / 27.3 / 36.4 / 45.5 / 54.6 kWh
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature
Communication	CAN and RS-485 compatible
Certification	
Transportation	UN38.3
Safety	IEC 62619 (Cell), IEC 62619 (Pack)

* Max. charge/discharge current derating may occur with changes in temperature and SoC.

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