

YOUR
SMART
ENERGY



SMILE-M-BAT-13.9P

RESIDENTIAL SERIES

CAPACITY

13.99 kWh Modular



SMILE-M-BAT-13.9P



Model	SMILE-M-BAT-13.9P	SMILE-M-BAT-13.9P II	SMILE-M-BAT-13.9P III	SMILE-M-BAT-13.9P IV
Physical Parameters				
Battery Type	LFP (LiFePO4)			
Installation Method	Base Installation			
Dimension (W x D x H)	620 x 240 x 710 mm			
Weight	115 kg			
IP Protection	IP65			
Warranty	10 Year Battery Performance Warranty			
Electrical Parameters				
Energy Capacity	13.99 kWh	27.99 kWh	41.99 kWh	55.99 kWh
Usable Energy	13.99 kWh	27.99 kWh	41.99 kWh	55.99 kWh
Depth of Discharge (DoD)	100 %			
Nominal Voltage	48V			
Operating Voltage Range	45 ~ 54 V			
Operating Parameters				
Max. Charging Current	105 A			
Max. DischargingCurrent	105 A			
Rated DC Power	5.04kW			
Conditional Short-circuit current	° 6 kA			
Charge Operating Temperature	0 °C , ..., 50 °C			
Discharge Operating Temperature	-10 °C , ..., 50 °C			
Relative Humidity	0 ~ 95% (No Condensation)			
BMS				
Modules Connection	1 ~ 4 in parallel connection			
Usable Capacity	13.99 / 27.98 / 41.97 / 55.96 kWh			
Monitoring Parameters	Systemvoltage, current, cellvoltage, cell temperature, PCBA temperaturemeasurement			
Communication	CAN			
Certification				
Transportation	UN38.3			
Safety	IEC 62619 , IEC 62040 , IEC 61000			
Country of Manufacture	China			

* Test condition: Max. 0.5C charge/discharge at 25±2°C.

** 50A discharging current sustainable for 30 minutes in off-grid operation.

*** 40A discharging current sustainable for 30 minutes in off-grid operation.

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

* Under specific test conditions.

