

● YOUR
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BATTERY SMILE-BAT-13.3P

RESIDENTIAL SERIES

CAPACITY ►

13.34 kWh modular



Modular

Safe

Long lifespan



BATTERY SMILE-BAT-13.3P



Model		Smile-BAT-13.3P	
Physical			
Battery Type	LFP (LiFePO4)		
Cell Manufacturer	EVE		
System Weight	120 kg (per unit)		
Dimension (W x D x H)	610 x 236 x 812 mm (per unit)		
IP Protection	IP65		
Warranty	5 Year Product Warranty, 10 Year Performance Warranty		
Electrical			
Energy Capacity	13.34 kWh	Operating Voltage Range	45 ~ 54 V
Usable Capacity	13.34 kWh	Internal Resistance	≤ 20 mΩ
Depth of Discharge (DoD)	100%	Cycle Life	8000
Nominal Voltage	48 V	Rated Charging/Discharging Power	5000 W (per unit)
Operation			
Max. Charging/Discharging Current	100A (0.35C) per unit of battery		
Max. Charging/Discharging Power	5000 W (per unit)		
Operating Temperature Range	-10°C ~ 50°C*		
Humidity	15% ~ 85%		
Short Circuit Current	200A / unit		
Multiple Battery**			
Modules Connection	1~6 in parallel (with expansion pack)		
BS Model	SMILE-BAT-13.3P / SMILE-BAT-13.3PX2 / SMILE-BAT-13.3PX3 / SMILE-BAT-13.3PX4 / SMILE-BAT-13.3PX5 / SMILE-BAT-13.3PX6		
Usable Capacity	13.34 kWh / 26.68kWh / 40.02kWh / 53.36kWh / 66.70kWh / 80.04kWh		
Maximum current	100 A / 200 A / 300 A / 400 A / 500 A / 600 A		
BMS			
Power consumption	<1 W (Work), <10 mW (Sleep)		
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)		

* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

** For multiple battery connection, the only difference will be the energy capacity and Maximum current value.
All other parameter are the same.



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INVERTER SMILE5-INV

RESIDENTIAL SERIES



General

Model	SMILE5-INV
Dimensions (W x D x H)	610 x 236 x 615 mm
Net Weight	60 kg

Interface

Communication	Ethernet
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Ambient Conditions

Humidity	15% ~ 85% (No Condensing)
Operating Temperature	-20°C ~ 60 °C

IP Protection Class	IP65
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Standards & Guidelines

Grid Regulation	VDE-AR-N 4105, VDE 0126-1-1, AS 4777.2/1.3, CEI 0-21, G99-1, G100, RD 1699, NRS 097-2-1, TOR D4
Safety	IEC 62109-1&-2, IEC62477-1, IEC 62040.1.1, IEC 62116
EMC	EN 61000-6-1/2/3/4

INVERTER SMILE5-INV



Technical Specification

PV Input (DC)

Maximum Input PV Power	2 x 3300 W
Maximum DC Voltage	580 V
Nominal DC Voltage	360 V
Start-up DC Voltage	125 V
MPPT Voltage Range	125 ~ 550 V
MPPT Number	2
Maximum Input Current	2 x 12 A
Maximum Short-circuit Current	2 x 15 A

Grid Output (AC)

Rated Power	4600 W
UPS(Resistive load)	Yes
Nominal Output Voltage	230 V
Output Voltage Range	180 ~ 270 V
Maximum Output Current	22 A
Output Power Factor	0.8 leading to 0.8 lagging
Grid Connection	Single-phase

Battery Input (DC)

Nominal DC Voltage	48 V
DC Voltage Range	40 ~ 60 V
Maximum Charging Current	100 A
Maximum Discharging Power	4600 W
Compatible Chemistry	LFP

Efficiency

Maximum Efficiency	97.6%
EURO Efficiency	97.0%

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