



# BATTERY SMILE-BAT-13.3P



<b>Model</b>		<b>Smile-BAT-13.3P</b>	
<b>Physical</b>			
<b>Battery Type</b>	LFP (LiFePO4)		
<b>Cell Manufacturer</b>	<b>EVE</b>		
<b>System Weight</b>	120 kg (per unit)		
<b>Dimension (W x D x H)</b>	610 x 236 x 812 mm (per unit)		
<b>IP Protection</b>	IP65		
<b>Warranty</b>	5 Year Product Warranty, 10 Year Performance Warranty		
<b>Electrical</b>			
<b>Energy Capacity</b>	13.34 kWh	<b>Operating Voltage Range</b>	45 ~ 54 V
<b>Usable Capacity</b>	13.34 kWh	<b>Internal Resistance</b>	≤ 20 mΩ
<b>Depth of Discharge (DoD)</b>	100%	<b>Cycle Life</b>	8000
<b>Nominal Voltage</b>	48 V	<b>Rated Charging/Discharging Power</b>	5000 W (per unit)
<b>Operation</b>			
<b>Max. Charging/Discharging Current</b>	100A (0.35C) per unit of battery		
<b>Max. Charging/Discharging Power</b>	5000 W (per unit)		
<b>Operating Temperature Range</b>	-10°C ~ 50°C*		
<b>Humidity</b>	15% ~ 85%		
<b>Short Circuit Current</b>	200A / unit		
<b>Multiple Battery**</b>			
<b>Modules Connection</b>	1~6 in parallel (with expansion pack)		
<b>BS Model</b>	SMILE-BAT-13.3P / SMILE-BAT-13.3PX2 / SMILE-BAT-13.3PX3 / SMILE-BAT-13.3PX4 / SMILE-BAT-13.3PX5 / SMILE-BAT-13.3PX6		
<b>Usable Capacity</b>	13.34 kWh / 26.68kWh / 40.02kWh / 53.36kWh / 66.70kWh / 80.04kWh		
<b>Maximum current</b>	100 A / 200 A / 300 A / 400 A / 500 A / 600 A		
<b>BMS</b>			
<b>Power consumption</b>	<1 W (Work), <10 mW (Sleep)		
<b>Monitoring Parameters</b>	System voltage, current, cell voltage, cell temperature, PCBA temperature		
<b>Communication</b>	CAN and RS-485 compatible		
<b>Certification</b>			
<b>Transportation</b>	UN38.3		
<b>Safety</b>	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

#### Ambient Conditions

**Humidity** 15% ~ 85% (No Condensing)

**Operating Temperature** -20°C ~ 60 °C

**IP Protection Class** IP65

#### 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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