

Hybrid Inverter

SMILE5-INV



<i>General</i>	
Model	SMILE5-INV
Dimensions (W x D x H)	600x 250x 450 mm
Net Weight	40kg
Interace	
Communication Port	CAN/USB
Ambient Conditions	
Humidity	0 ~ 95% RH (No condensing)
Operating Temperature	-20°C ~ 60 °C
IP Protection Class	IP65
<i>Standards & Guidelines</i>	
Grid Regulation	VDE4105, VDE0126-1-1+A1, G59/3, AS4777.2 /3, CEI 0-21
Safety	IEC62109-1&-2
EMC	EN61000-6-1/2/3/4, EN 61000-3-11/12

Hybrid operation

PV Input (DC)

Max. Input PV Power	6600W
Maximum DC Voltage	580 V
Nominal DC Voltage	360 V
Start-up DC Voltage	125 V
MPP Voltage Range	125 ~ 550 V
MPPT Number	2
Maximum Input Current	2 x 15 A

Grid Output (AC)

Rated Power	5000 W / 4600 W (DE)
Backup Output Power	4000W (150%Pn, 10S)
UPS	Yes
Nominal Output Voltage	230 V
Output Voltage Range	180 ~ 270 V
Nominal Output Current	20 A
Power Factor	> 0,99
Grid Connection	Single-phase

Battery Input (DC)

Nominal DC Voltage	48 V
Maximum Charging Current	100A
Maximum Discharging Power	5000 W

Efficiency

Maximum Efficiency	97.6%
EURO Efficiency	97%

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Official Website







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Battery System Designed For PV Household Application

SMILE5-BAT



-  Plug & Play
-  Modular
-  Safety
-  Long Lifetime

Physical

Model	SMILE5-BAT
Battery Type	LiFePO ₄ (LFP)
Battery Manufacturer	
System Weight	80 kg
Dimension (W x D x H)	600 x 250 x 600 mm
Protection Level	IP65

Electrical

Installed Capacity	5.7 kWh
Usable Capacity	5.2 kWh
DOD	90%
Nominal Voltage	51.2 V
Operation Voltage Range	48 ~ 57.6 V
Internal Resistance	≤30 mΩ
Cycle Life	≥6000

BMS

Power Consumption	<2 W (Work) <100 mW (Sleep)
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature.
SOC	Intelligent algorithm
Communication	CAN and RS485 compatible

System Configuration

Module Connect	1-6 Parallels
Capacity Range	5.7/11.5/17.2/22.9/28.7/34.4 kWh

Operation

Max. Charge Current	56 A (0.5C)
Max. Discharge Current	56 A (0.5C)
Operating Temperature Range	* -10°C ~ 50°C
Transport Or Storage Temperature Range	-25°C ~ 45°C
Humidity	15 ~ 85%

Warranty

Product Warranty	5 Years
Performance Warranty	10 Years

* When the temperature is below zero the battery are not allowed to charge. And derating power output when the temperature is above 40°C.



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