

● YOUR
● SMART
● ENERGY



SMILE5

RESIDENTIAL SERIES

CAPACITY ▶

2.9 / 5.7 / 10.1 kWh modular
expandable to 60.6 kWh



reddot design award 2018



product
design award 2018



5kW single phase hybrid inverter

Fast response

UPS ability

24/7 Monitoring

- S**elf sufficient
- M**odular battery
- I**ntelligent control
- L**ong lifespan
- E**ssential load protected
- 5** kW system



SMILE5



Model		SMILE5	
System Specification			
Nominal Output Power		5000 W / 4600 W (DE)	
Capacity Range	2.9 ~ 17.2 kWh (96% DoD)	5.7 ~ 34.4 kWh (96% DoD)	10.1 ~ 60.6 kWh (90% DoD)
Usable Capacity Range	2.8 ~ 16.5 kWh	5.5 ~ 33.0 kWh	9.1 ~ 54.4 kWh
Battery Chemistry		LFP (LiFePO4)	
IP Protection		IP21 (Indoor) / IP65 (Outdoor)	
Warranty		5 Year Product Warranty, 10 Year Battery Warranty	

Inverter Technical Specification			
Model	SMILE5-INV	Phase	Single-Phase
Max. PV Input Current	2 x 12 A	Backup	UPS
Max. PV Input Voltage	580 V	Display	LCD
MPPT Number	2	Communication	Ethernet
MPPT Voltage Range	125 ~ 550 V	Start Up DC Voltage	125 V
Max. PV Short-circuit Current	2 x 15 A	Humidity	15% ~ 85% (No Condensing)
Max. Charging/Discharging Current	100 A	Dimension (W x D x H)	610 x 236 x 615 mm
Max. Charging/Discharging Power	5000 W	Weight	60 kg
Rated Voltage	230 V	Grid Regulation	VDE-AR-N 4105, VDE 0126-1-1, AS 4777.2/3, CEI 0-21, G99-1, G100, RD 1699, NRS 097-2-1, TOR D4
Grid Voltage Range	180 ~ 270 V	Safety	IEC 62109-1&2, IEC 62477-1, IEC 62040.1.1, IEC 62116
Rated Frequency	50 / 60 Hz	EMC	EN 61000-6-1/2/3/4

Battery Technical Specification			
Module Model	M4856-P	SMILE5-BAT	SMILE-BAT-10.1P
Module Capacity	2.9 kWh	5.7 kWh	10.1 kWh
Module Nominal Voltage	51.2 V	51.2 V	48 V
Operating Temperature Range	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*
Max. Modules in Parallel	6	6	6
Max. Charging/Discharging Current	56 A (1C)	56 A (0.5C)	100 A (0.5C)
Cycle Life	10 000**	10 000**	8000

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

** Under specific test conditions



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