

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

<b>Inverter Technical Specification</b>			
<b>Model</b>	SMILE5-INV	<b>Rated Frequency</b>	50 / 60 Hz
<b>Max. PV Input Power</b>	2 x 3300 W	<b>Phase</b>	Single-Phase
<b>Max. PV Input Current</b>	2 x 12 A	<b>Backup</b>	UPS
<b>Max. PV Input Voltage</b>	580 V	<b>Display</b>	LCD
<b>MPPT Number</b>	2	<b>Communication</b>	Ethernet
<b>MPPT Voltage Range</b>	125 ~ 550 V	<b>Start Up DC Voltage</b>	125 V
<b>Max. PV Short-circuit Current</b>	2 x 15 A	<b>Humidity</b>	15% ~ 85% (No Condensing)
<b>Max. Charging/Discharging Current</b>	100 A	<b>Dimension (W x D x H)</b>	610 x 236 x 615 mm
<b>Max. Charging/Discharging Power</b>	5000 W	<b>Weight</b>	60 kg
<b>Rated Voltage</b>	230 V	<b>Safety</b>	IEC 62109-1&-2, IEC 62477-1, IEC 62040.1.1, IEC 62116
<b>Grid Voltage Range</b>	180 ~ 270 V	<b>EMC</b>	EN 61000-6-1/2/3/4
<b>Grid Regulation</b>	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		

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