

• YOUR  
• SMART  
• ENERGY



# SMILE5

## RESIDENTIAL SERIES

### POWER

5 kW inverter

### CAPACITY

2.9 / 5.7 / 10.1 / 13.3 kWh

Battery modular

expandable to 80 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				
Rated Output Power		5000 W / VA		
Rated Output Current		21.7A		
Capacity Range	2.9 ~ 17.2 kWh (96% DoD)	5.7 ~ 34.4 kWh (96% DoD)	10.1 ~ 60.6 kWh (96% DoD)	13.3 ~ 80 kWh (100% DoD)
Usable Capacity Range	2.8 ~ 16.5 kWh	5.5 ~ 33.0 kWh	9.7 ~ 58.1 kWh	13.3 ~ 80 kWh
Battery Chemistry		LFP (LiFePO4)		
IP Protection		IP65		
Warranty		5 Year Product Warranty		

Inverter Technical Specification			
Model	SMILE5-INV	Phase	Single-Phase
Max. PV Input Power	7500 W	Backup	UPS
Max. PV Input Current	15 A / 15 A	Backup Port Output Power	5000 W / VA
Max. PV Input Voltage	550 V	Max Inverter Efficiency	96.5%
MPPT Number	2	Display	LCD
MPPT Voltage Range	70 ~ 540 V	Min. Operation Voltage	70V
Max. PV Short-circuit Current	18 A / 18 A	Start-up Voltage	90 V
Max. Charging / Discharging Current	100 A	Relative Humidity	0 ~ 90% (No Condensing)
Max. Charging / Discharging Power	5000 W	Dimension (W x D x H)	610 x 217 x 420 mm
Rated Voltage	230 V	Weight	27.7 kg
Rated Frequency	50 / 60 Hz	Operation temperature	-20~60°C
Safety		IEC 62109	
Grid Regulation		AS4777.2	

Battery Technical Specification				
Module Model	M4856-P	SMILE5-BAT	SMILE-BAT-10.1P	SMILE-BAT-13.3P
Module Capacity	2.9 kWh	5.7 kWh	10.1 kWh	13.3 kWh
Module Nominal Voltage	51.2 V	51.2 V	48 V	48 V
Operating Temperature Range	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*
Max. Modules in Parallel	6	6	6	6**
Max. Charging / Discharging Current	56 A	56 A	100 A	100 A
Cycle Life	10 000***	10 000***	8000***	8000***

\* When the ambient temperature is too low or too high, the performance of battery may be limited.

\*\* ≥2 needs to install expansion pack

\*\*\* Under specific test conditions



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