

• YOUR
• SMART
• ENERGY



SMILE5

RESIDENTIAL SERIES

POWER

5 kW Inverter

CAPACITY

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

VPP Ready



SMILE5



Model	SMILE5	
System Specification		
Rated Output Power	5000 W	
Rated Output Apparent Power	5000 VA	
Capacity Range	10.1 ~ 60.6 kWh(96% DoD)	13.3 ~ 80 kWh(100% DoD)
Usable Capacity Range	9.7 ~ 58.1 kWh	13.3 ~ 80 kWh
Battery Chemistry	LFP (LiFePO4)	
IP Protection	IP65	
Warranty	10 Year Product Battery Warranty	

Inverter Technical Specification			
Model	SMILE5-INV	Rated Output Apparent Power (Backup Port)	5000 VA
Coupling	Hybrid	Rated Output Current (Backup Port)	21.7 A
Max. PV Input Power	7500 W	Max. AC Output Current (Backup Port)	21.7 A
Max. PV Input Current	15 A / 15 A	Rated Frequency	50 / 60 Hz
Max. PV Input Voltage	550 V	Max Inverter Efficiency	96.50%
Start-up input voltage	90 V	Backup	UPS
Rated PV Input Voltage	360 V	Communication	Ethernet / WIFI
MPPT Number/Max. Input Strings Number Per MPPT	2/1	Humidity	0 ~ 90% (No Condensing)
MPPT Voltage Range	70 ~ 540 V	Dimension (W x D x H)	610 x 210 x 627 mm
Max. PV Short-circuit Current	18 A / 18 A	Weight	27.7 kg
Max. Charging/Discharging Current	100 A	Operating temperature	-25 ~ 60 °C
Max. Charging/Discharging Power	5000 W	Overvoltage Category	DC II AC III
Rated Voltage	230 V	Active-islanding Method	Frequency shift
Max. AC input Power (Grid Port)	7500 W	Country of Manufacture	CHINA
Rated Output Current (Grid Port)	21.7 A	Safety	IEC 62109
Max. AC Output Current (Grid Port)	21.7 A	EMC	EN 61000-6-1 / EN 61000-6-3
Rated Output Apparent Power (Grid Port)	5000 VA	Grid Regulation	AS4777.2.2020

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

* Max. charge/discharge current derating will occur related to temperature and SOC.

** ≥2 needs to install expansion pack

*** Under specific test conditions



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