

YOUR
SMART
ENERGY



SMILE-G3-S5/B5

RESIDENTIAL SERIES

POWER

5 kW

Single Phase

CAPACITY

9.3 kWh Battery Module, Up to 37.2 kWh



reddot design award 2022



GOOD DESIGN AWARD



KEY FEATURES

200% PV Input

Automatic Bypass Function for Series Battery

Fast-Suppression Aerosol Fire Defense

Faster Response for VPP Control

SMILE-G3-S5/B5



Model	SMILE-G3-S5	SMILE-G3-B5
System Specification		
Nominal Output Power	5000 W	5000 W
Capacity Range	9.3 ~ 37.2 kWh (100% DoD)	
Battery Chemistry	LFP (LiFePO ₄)	
IP Protection	IP65 (Outdoor)	
Warranty	10 Years Product Warranty, 10 Years Battery Performance Warranty	
Inverter Technical Specification		
Model	SMILE-G3-S5-INV	SMILE-G3-B5-INV
Coupling	Hybrid	AC
Max. PV Input Power	10000 W	N/A
Max. PV Input Current	16 A / 16 A	N/A
Max. PV Input Voltage	580 V	N/A
MPPT Number / Max. Input Strings per MPPT	2 / 1	N/A
Start-up Voltage	120 V	N/A
MPPT Voltage Range	100 ~ 550 V	N/A
Max. PV Short-Circuit Current per MPPT	24 A / 24 A	N/A
Max. Charging / Discharging Current	60 A	
Max. Charging / Discharging Power	5000 W	
Rated Frequency	50 / 60 Hz	
Rated Voltage	230 V	
Rated Output Apparent Power (Grid Port)	5000 VA	
Rated Output Apparent Power (Backup Port)	5000 VA	
Max. AC input Power (Grid Port)	10000 W	
Rated Output Current (Grid Port)	21.7 A	
Max. AC Output Current (Grid Port)	21.7 A	
Rated Output Current (Backup Port)	21.7 A	
Max. AC Output Current (Backup Port)	21.7 A	
Backup	UPS	
Phase	Single Phase	
Communication	Ethernet / Wi-Fi / Modbus / API	
Dimensions (W x H x D)	610 x 212 x 366 mm	
Weight	19.5 kg	
Ingress Protection (IP) Rating	IP65	
Max. Inverter Efficiency	97.3 %	
Humidity	0 ~ 90% (No Condensation)	
Operating Temperature	-25 °C ~ 60 °C (Charge / Discharge)	
Active Anti-Islanding Method	Integrated	
Country of Manufacture	China	
Safety	IEC 62109, IEC 62040	
EMC	IEC 61000	
Grid Regulation	AS / NZS 4777.2	
Battery Technical Specification		
Module Model	SMILE-G3-BAT-9.3S	
Module Capacity	9.3 kWh	
Usable Capacity	9.3 kWh (100% DoD)	
Nominal Voltage	96 V	
Battery Voltage Range	90 ~ 105.6 V	
Modules Connection	1 ~ 4 in Series	
Max. Charging / Discharging Current	52.5 A / 52.5 A	
Operating Temperature Range	-20°C ~ 50°C*	
IP Protection	IP65	
Dimensions (W x H x D)	610 x 634 x 210 mm	
Weight	81 kg	

* Performance reduction may occur depending on the state of charge and temperature. Optimal operating temperature 15°C ~ 30°C.

