



YOUR
SMART
ENERGY



SMILE-G3-S8

RESIDENTIAL SERIES

POWER

8 kW Hybrid Inverter
Single Phase

CAPACITY

4.8 - 19.2 kWh with
4.8 kWh Battery Module

9.6 - 38.4 kWh with
9.6 kWh Battery Module



All-in-one Design

UPS Seamless Switch

Off-grid Max. 200% Overload, 30s

Max. 28 Configurable Time Periods*

Self-heating Batteries, Better Performance under Low Temperature

*Up to 6 time periods daily or 4 time periods*7 days weekly for charging and discharging can be set.

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SMILE-G3-S8



Model	SMILE-G3-S8	
System Specification		
Battery Chemistry	LFP (LiFePO4)	
Nominal Output Power	8000 W	
Capacity Range	4.0 - 37.2 kWh	
Warranty	10 Years	
PV Input Technical Specification		
Max PV Input Power	10000 W	
Max PV Input Current	15 A / 15 A	
Max. PV Input Voltage	580 V	
MPPT Number / Max. Input Strings Number per MPPT	2 / 1	
MPPT Voltage Range	100 - 550 V	
Max. PV Short-Circuit Current	22.5 A / 22.5 A	
MPPT Efficiency	>99%	
Inverter Technical Specification		
AC Input & Output Data (Grid Side)		
Rated AC Output Power	8000 W	
Max. AC Input Power	11500 W	
Rated Frequency	50 / 60 Hz	
Rated Voltage	230 V	
Grid Voltage Range	150 - 287 V	
Backup Output Data		
Rated Output Power (Off-grid)	8000 W	
Rated Output Voltage (Off-grid)	230 V ± 10%	
On/Off Grid Switch Time	≤ 20 ms (EPS)	
Peak Power (Off-grid)	8800 W 60s; 16000 W 30s	
Max. Continuous AC Passthrough	50 A	
Rated Output Current (off-grid)	34.8 A	
General Specification		
Dimension (W x D x H)	610 x 212 x 366 mm	
Weight	19.5 kg	
Communication	Ethernet / WiFi	
Relative Humidity	0 - 90% (Non-Condensing)	
Operation Temperature	-25 - 60°C	
Noise	<35 dB	
Over Voltage Category	DC Type III / AC Type II	
Ingress Protection(IP) Rating	IP 65	
Operation Altitude	3000 m	
Safety	IEC62109-1/-2, IEC62477, IEC62040-1	
EMC	IEC61000-6-1/-2/-3/-4	
Grid Regulation	AS 4777.2, NRS 097, VDE 4105, EN 50549, G99	
Battery Technical Specifications		
Module Model	SMILE-G3-BAT-4.8S	SMILE-G3-BAT-9.6S
Rated Capacity	4.8 kWh	9.6 kWh
Usable Capacity	4.56 kWh	9.3 kWh
Depth of Discharge (DoD)	95 % *	95 % *
Nominal Voltage	96 V	96 V
Max. Charging/Discharging Current	50 A	52.5 A
Charge rate	1 C	0.5 C
Operating Temperature Range	-20°C - 50°C **	-20°C - 50°C **
Battery Modules Quantity	1 - 4	1 - 4
IP Protection	IP65	IP65
Dimensions (W x D x H)	610 x 212.5 x 435 mm	610 x 210 x 634 mm
Weight	53 kg	81 kg
Fire-Fighting	Aerosol + Anti-explosion Valve	Aerosol + Anti-explosion Valve

* Test Condition: Max 0.5 C charge&discharge at 25±2°C.

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

