

YOUR
SMART
ENERGY



SMILE-G3-S8

RESIDENTIAL SERIES

POWER

8 kW Hybrid Inverter
Expandable to 24 kW
Single Phase

CAPACITY

8.2 ~ 49.2 kWh with
8.2 kWh Battery Module



KEY FEATURES

All-in-one Design

High Voltage System

UPS Seamless Switch

Off-grid Max. 200% Overload, 30s

Support 3 in Parallel, Dual Power Supply

Wider Range of MPPT Work Voltage

Max. 28 Configurable Time Periods*

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

SMILE-G3-S8



Model	SMILE-G3-S8
System Specification	
Battery Chemistry	LFP (LiFePO4)
Nominal Output Power	8000 W
Capacity Range	8.2 ~ 49.2 kWh (95% DoD)
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 \pm 10%
On/Off Grid Switch Time	\leq 20ms
Peak Power (Off-grid)	8800 W 60s; 12000 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, CEI 0-21
Battery Technical Specification	
Module Mode	SMILE-G3-BAT-8.2P
Module Capacity	8.2 kWh
Usable Capacity	7.8 kWh
Depth of Discharge (DoD)	95 %*
Nominal Voltage	256 V
Max. Charging / Discharging Current	32 A**
Operating Temperature Range	-10°C ~ 50°C***
Battery Modules Connection	1 ~ 6 in parallel
Dimension (W x D x H)	610 x 212 x 793 mm
Weight	78.3 kg
Ingress Protection(IP) Rating	IP 21

* Test Condition: Max 0.5 C charge&discharge at 25 \pm 2 C

** Support 32 A long-term work, support 40 A work for 30min

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



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