

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



**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
<b>System Specification</b>	
Battery Chemistry	LFP ( LiFePO4 )
Nominal Output Power	8000 W
Capacity Range	8.2 ~ 49.2 kWh ( 95% DoD )
Warranty	10 Years
<b>PV Input Technical Specification</b>	
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%
<b>Inverter Technical Specification</b>	
<b>AC Input &amp; Output Data (Grid Side)</b>	
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
<b>Backup Output Data</b>	
Rated Output Power (Off-grid)	8000 W
Rated Output Voltage (Off-grid)	230 V ± 10%
On/Off Grid Switch Time	≤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
<b>General Specification</b>	
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
<b>Battery Technical Specification</b>	
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±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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