

• YOUR  
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# SMILE-G3-S8

RESIDENTIAL SERIES

## POWER

8 kW Hybrid Inverter  
Expandable to 24 kW  
Single Phase

## CAPACITY

8.2 kWh Battery Module  
Expandable to 49.2 kWh



1C Battery Discharge

125% PV Input

Grid-Forming Function

Uninterrupted Power Supply (UPS)

Support Dual Power Supply  
(Grid & Diesel Generator)

Single-phase Parallel Function



# SMILE-G3-S8



Model	SMILE-G3-S8
<b>System Specification</b>	
Nominal Output Power	8000 W
Capacity Range	8.2 ~ 49.2 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO <sub>4</sub> )
IP Grade	IP21 (Indoor)
Warranty	10 Year Product Warranty
<b>Inverter Technical Specification</b>	
Model	SMILE-G3-S8-INV
Coupling	Hybrid
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
Max. Charging/Discharging Current	60 A
Max. Charging/Discharging Power	8000 W
Rated Frequency	50 / 60 HZ
Rated Voltage	230 V
Max. AC input Power	11500 W
Rated Output Apparent Power (on-grid)	11500 VA
Rated Output Apparent Power (off-grid)	8000 VA
Peak Out Power (off-grid)	8800 W 60s; 12000 W 30s; 16000 W 0.5s;
Rated Output Current (on-grid)	50 A
Rated Output Current (off-grid)	35 A
Backup	UPS
Communication	Ethernet / WiFi
Humidity	0 ~ 90% (Non-Condensing)
Dimension ( W x D x H )	610 x 212 x 366 mm
Weight	20 kg
Safety	IEC 62109
EMC	EN61000-6-1/-2/-3/-4
Gnid Regulation	NRS 097
<b>Battery Technical Specification</b>	
Module Mode	SMILE-G3-BAT-8.2P
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**
Cycle Life	8000***
Battery Modules Connection	1~ 6 in parallel
Dimension (W x D x H)	610 x 212 x 793 mm
Weight	72 kg

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

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

\*\*\*Under specific test conditions.



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