



YOUR  
SMART  
ENERGY



# SMILE-G3-S6

RESIDENTIAL SERIES

## POWER

6 kW Hybrid Inverter

## CAPACITY

3.8 ~15.3 kWh with  
3.8 kWh Battery Module



All-in-one Design

High Voltage System

UPS Seamless Switch

160% PV Input Oversizing

Off-grid Max. 150% Overload, 30s

Wider Range of MPPT Work Voltage

Max. 28 Configurable Time Periods\*

# SMILE-G3-S6



Model	SMILE-G3-S6
<b>System Specification</b>	
Nominal Output Power	6000 W
Capacity Range	3.8 ~ 15.3 / 4.0 ~16.0 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP 65
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty

<b>Inverter Technical Specification</b>	
Model	SMILE-G3-S6-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	6000 W
Rated Frequency	50 / 60 Hz
Rated Voltage	L / N / PE, 220 / 230 V
Max. AC input Power	11500 W
Max Output Power on Backup Port (on-grid)	11500 W
Max Output Power on Backup Port (off-grid)	11500 W
Peak Output Power (off-grid)	6600 W 60s; 9000 W 30s
Rated Output Current (on-grid)	26.0 A
Rated Output Current (off-grid)	26.0 A
Backup	UPS
Communication	Ethernet / WiFi
Relative Humidity	0 ~ 90% ( Non-Condensing )
Dimension ( W x D x H )	610 x 212 x 366 mm
Weight	20.5 kg
Safety	EN & IEC 62109
EMC	EN 61000-6-1 / -3
Grid Regulation	CEI 0-21

<b>Battery Technical Specification</b>	
Model	SMILE-G3-BAT-3.8S
Nominal Capacity	3.8 kWh
Usable Capacity	3.65 kWh
Depth of Discharge (DoD)	95 % *
Nominal Voltage	96 V
Max. Charging/Discharging Current	40 A
Operating Temperature Range	-10°C ~ 50 °C **
Modular Connection	1 ~ 4
IP Protection	IP21
Dimensions (W x D x H)	610 × 212.5 × 435 mm
Weight	39.2 kg
Noise	≤ 35 dB
Fire-Fighting	Aerosol

\* Test condition: Max. 0.5C charge/discharge at 25±2°C.

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



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