

YOUR
SMART
ENERGY



SMILE-G3-T4/T5/T6/T8/T10

RESIDENTIAL SERIES

POWER

4 / 5 / 6 / 8 / 10 kW

CAPACITY

3.8 ~ 46.0 kWh with
3.8 kWh Battery Module

4.0 ~ 24.0 kWh with
4.0 kWh Battery Module

10.1 ~ 60.5 kWh with
10.1 kWh Battery Module



reddot design award 2022



GOOD DESIGN AWARD



3 MPPT for Higher PV Input

Bypass Function for Series Battery

Safer with Aerosols Inside the Battery

Capable of 150% Unbalancing per Phase

Compatible with EV Charger and Heat Pump

SMILE-G3-T4/T5/T6/T8/T10



Model	SMILE-G3-T4	SMILE-G3-T5	SMILE-G3-T6	SMILE-G3-T8	SMILE-G3-T10
System Specifications					
Nominal Output Power	4 kW	5 kW	6 kW	8 kW	10 kW
Capacity Range	3.8 ~ 46.0 / 4.0 ~ 24.0 kWh (95% DoD)				
Battery Chemistry	LFP (LiFePO4)				
Warranty	10 Years Product Warranty, 10 Years Battery Performance Warranty				
Inverter Technical Specifications					
Model	SMILE-G3-T4-INV	SMILE-G3-T5-INV	SMILE-G3-T6-INV	SMILE-G3-T8-INV	SMILE-G3-T10-INV
Coupling	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid
Max. PV Input Power	8 kW	10 kW	12 kW	16 kW	20 kW
Max. PV Input Current	16 A / 16 A / 16 A				
Max. PV Input Voltage	1000 V				
MPPT Number / Max. Input Strings Number per MPPT	3 / 1				
MPPT Voltage Range	140 ~ 950 V				
Max. PV Short-Circuit Current	24 A / 24 A / 24 A				
Max. Charging/Discharging Current	40 A				
Max. Charging/Discharging Power	4 kW	5 kW	6 kW	8 kW	10 kW
Rated Frequency	50 / 60 Hz				
Rated Voltage	220 V / 380 V, 230 V / 400 V				
Phase	Three Phase				
Rated Output Power (Grid Port)	4 kW	5 kW	6 kW	8 kW	10 kW
Rated Output Current (Grid Port)	5.8 A	7.3 A	8.7 A	11.6 A	14.5 A
Rated Output Power (Backup Port)	4 kW	5 kW	6 kW	8 kW	10 kW
Rated Input Power (on-grid)	8 kW	10 kW	12 kW	16 kW	20 kW
Backup	UPS				
Communication	Ethernet / WiFi / Modbus / API				
Relative Humidity	0 ~ 90% (No Condensation)				
Dimensions (W x D x H)	610 x 212.5 x 416 mm				
Weight	26.7 kg				
IP Protection	IP65				
Safety	IEC 62109-1/-2				
EMC	IEC 61000-6-1/-3				
Overvoltage Category	DC II				
Noise	≤ 30 dB				
Grid Regulation	VDE 4105, EN 50549-1, VDE0126-01-01, NC RFG				
Maximum / European Efficiency	97.6 % / 96.8 %				

Battery Technical Specifications			
Module Model	SMILE-G3-BAT-3.8S	SMILE-G3-BAT-4.0S	SMILE-G3-BAT-10.1P
Module Capacity	3.8 kWh	4.0 kWh	10.1 kWh
Usable Capacity	3.65 kWh	3.8 kWh	9.6 kWh
Depth of Discharge (DOD)	95 % *	95 % *	95 % *
Nominal Voltage	96 V	96 V	96 V
Max. Charging/Discharging Current	40 A	42 A	60 A
Operating Temperature Range	-10°C ~ 50 °C **	-10°C ~ 60 °C **	-10°C ~ 50 °C **
Cycle Life	10000 ***	10000 ***	8000 ***
Battery Modules Quantity	1 ~ 12 ****	1 ~ 6	1 ~ 6
IP Protection	IP21	IP65	IP65
Dimensions (W x D x H)	610 x 212.5 x 435 mm	610 x 212.5 x 435 mm	610 x 212.5 x 793 mm
Weight	39.2 kg	42.5 kg	90 kg
Noise	≤ 35 dB	≤ 25 dB	≤ 25 dB
Fire-Fighting	Aerosol	N/A	N/A

* Test condition: Max. 0.5C charge/discharge at 25±2°C.
 ** Max. charge/discharge current derating may occur with changes in temperature and SoC.
 *** Under specific test conditions.
 **** Maximum 6 Batteries for each cluster in series, up to 2 clusters in parallel.



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