



YOUR
SMART
ENERGY



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

RESIDENTIAL SERIES

POWER

4 / 5 / 6 / 8 / 10 kW

CAPACITY

- 3.8 kWh Battery Module
Expandable from 3.8 to 23.0 kWh
- 4.0 kWh Battery Module
Expandable from 4.0 to 24.0 kWh
- 8.2 kWh Battery Module
Expandable from 8.2 to 49.2 kWh



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200% PV Input

All in One Design

MPPT Shadow Scanning

No Additional High Voltage Box

Support Multiple VPP Applications

Easy Installation and Maintenance

Bypass Function for Series Battery

3 MPPT Support Multi-Direction Roof

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	4000 W	5000 W	6000 W	8000 W	10000 W
Capacity Range	3.8 ~ 23.0 kWh / 4.0 ~ 24.0 kWh / 8.2 ~ 49.2 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	8000 W	10000 W	12000 W	16000 W	20000 W
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	4000 W	5000 W	6000 W	8000 W	10000 W
Rated Frequency	50 / 60 Hz				
Rated Voltage	220 V / 380 V, 230 V / 400 V				
Phase	Three Phase				
Rated Output Power (Grid Port)	4000 W	5000 W	6000 W	8000 W	10000 W
Rated Output Power (Backup Port)	4000 W	5000 W	6000 W	8000 W	10000 W
Rated Input Power (On-grid)*	8000 W	10000 W	12000 W	15000 W	15000 W
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				
Grid Regulation	VDE 4105, EN 50549-1, VDE0126-01-01, NC RFG				

Battery Technical Specifications			
Module Model	SMILE-G3-BAT-3.8S	SMILE-G3-BAT-4.0S	SMILE-G3-BAT-8.2P
Nominal Capacity	3.8 kWh	4.0 kWh	8.2 kWh
Usable Capacity	3.6 kWh	3.8 kWh	7.8 kWh
Depth of Discharge (DoD)	95%**		
Nominal Voltage	96 V	96 V	256 V
Max. Charging/Discharging Current	40 A***	42 A	32 A****
Rated Charging/Discharging Rate	1 C		
Operating Temperature Range	-10°C ~ 50 °C*****		
Cycle Life	10000*****		
Battery Modules Connection	1 ~ 6 in Series	1 ~ 6 in Series	1 ~ 6 in Parallel
IP Protection	IP21	IP65	IP21
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	78.3 kg

* Under specific application

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

*** 50A discharging current sustainable for 30 minutes in off-grid operation.

**** 40A discharging current sustainable for 30 minutes in off-grid operation.

***** Max. charge/discharge current derating may occur with changes in temperature and SoC.

***** Under specific test conditions.



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