

• YOUR
• SMART
• ENERGY



SMILE-G3-T4~10

RESIDENTIAL SERIES

POWER

4 / 6 / 8 / 10 kW

CAPACITY

7.7 ~ 23.0 kWh with
3.8 kWh Battery Module

8.2 ~ 49.2 kWh with
8.2 kWh Battery Module



3 MPPT for Higher PV Input

Redundant Design without HV Box

Capable of 150% Unbalancing per Phase



SMILE-G3-T4~10



Model	SMILE-G3-T4	SMILE-G3-T6	SMILE-G3-T8	SMILE-G3-T10
System Specifications				
Nominal Output Power	4000 W	6000 W	8000 W	10000 W
Capacity Range	7.7 ~ 23.0 kWh / 8.2 ~ 49.2 kWh (95% DoD)			
Battery Chemistry	LFP (LiFePO ₄)			
IP Protection	IP21 (Indoor)			
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty			
Inverter Technical Specifications				
Model	SMILE-G3-T4-INV	SMILE-G3-T6-INV	SMILE-G3-T8-INV	SMILE-G3-T10-INV
Coupling	Hybrid	Hybrid	Hybrid	Hybrid
Max. PV Input Power	8000 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	6000 W	8000 W	10000 W
Rated Frequency	50 / 60 Hz			
Rated Voltage	400 V			
Phase	Three Phase			
Rated Output Power (Grid Port)	4000 W	6000 W	8000 W	10000 W
Rated Output Power (Backup Port)	4000 W	6000 W	8000 W	10000 W
Rated Output Power (Grid Port + Backup Port)	8000 W	12000 W	15000 W	15000 W
Backup	UPS			
Communication	WIFI / LAN / RS485			
Relative Humidity	0 ~ 90% (No Condensation)			
Dimensions (W x D x H)	610 x 212.5 x 416 mm			
Weight	26.7 kg			
Safety	IEC 62109-1/-2			
EMC	IEC 61000-6-1/-3			
Overvoltage Category	DC II			
Grid Regulation	VDE-AR-N 4105:2018-11, EN 50549-1:2019			
Battery Technical Specifications				
Module Model	SMILE-G3-BAT-3.8S		SMILE-G3-BAT-8.2P-C	
Module Capacity	3.8 kWh		8.2 kWh	
Usable Capacity	3.6 kWh		7.8 kWh	
Depth of Discharge (DoD)	95%*		95%*	
Nominal Voltage	96 V		256 V	
Max. Charging/Discharging Current	40 A**		32 A***	
Operating Temperature Range	-10°C ~ +50 °C****		-10°C ~ +50 °C****	
Cycle Life	10000*****		10000*****	
Battery Modules Connection	2 ~ 6 in Series		1 ~ 6 in Parallel	
Dimensions (W x D x H)	610 x 212.5 x 435 mm		610 x 212 x 793 mm	
Weight	39.2 kg		72 kg	

* 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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