



YOUR  
SMART  
ENERGY



# SMILE-G3-T6/T10

RESIDENTIAL SERIES

## POWER

6 / 10 kW

## CAPACITY

- 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

Munich RE 



red dot design award 2022



GOOD DESIGN AWARD



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-T6/T10



Model	SMILE-G3-T6	SMILE-G3-T10
<b>System Specifications</b>		
Nominal Output Power	6000 W	10000 W
Capacity Range	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	
<b>Inverter Technical Specifications</b>		
Model	SMILE-G3-T6-INV	SMILE-G3-T10-INV
Coupling	Hybrid	
Max. PV Input Power	12000 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	6000 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)	6000 W	10000 W
Rated Output Power (Backup Port)	6000 W	10000 W
Rated Input Power (On-grid)*	12000 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	

<b>Battery Technical Specifications</b>		
Module Model	SMILE-G3-BAT-4.0S	SMILE-G3-BAT-8.2P
Nominal Capacity	4.0 kWh	8.2 kWh
Usable Capacity	3.8 kWh	7.8 kWh
Depth of Discharge (DoD)	95%**	
Nominal Voltage	96 V	256 V
Max. Charging/Discharging Current	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 Parallel
IP Protection	IP65	IP21
Dimensions (W x D x H)	610 x 212.5 x 435 mm	610 x 212.5 x 793 mm
Weight	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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