

• YOUR
• SMART
• ENERGY



SMILE-G3-T10

RESIDENTIAL SERIES

POWER

10 kW

CAPACITY

4.0 ~ 24.0 kWh with
4.0 kWh Battery Module

4.8 ~ 28.8 kWh with
4.8 kWh Battery Module

9.6 ~ 57.6 kWh with
9.6 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



Model	SMILE-G3-T10
System Specifications	
Nominal Output Power	10 kW
Capacity Range	4.0 ~ 57.6 kWh
Battery Chemistry	LFP (LiFePO4)
Warranty	10 Years
Inverter Technical Specifications	
Model	SMILE-G3-T10-INV
Coupling	Hybrid
Max. PV Input Power	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	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)	10 kW
Rated Output Current (Grid Port)	14.5 A
Rated Output Power (Backup Port)	10 kW
Rated Input Power (on-grid)	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, C99
Maximum / European Efficiency	97.6 % / 96.8 %

Battery Technical Specifications			
Module Model	SMILE-G3-BAT-4.0S	SMILE-G3-BAT-4.8S	SMILE-G3-BAT-9.6S
Rated Capacity	4.0 kWh	4.8 kWh	9.6 kWh
Usable Capacity	3.8 kWh	4.56 kWh	9.3 kWh
Depth of Discharge (DoD)	95 % *	95 % *	95 % *
Nominal Voltage	96 V	96 V	96 V
Max. Charging/Discharging Current	42 A	50 A	52.5 A
Operating Temperature Range	-10°C ~ 60 °C ***	-20°C ~ 50°C ***	-20°C ~ 50°C ***
Battery Modules Quantity	1 ~ 6	1 ~ 6	1 ~ 6
IP Protection	IP65	IP65	IP65
Dimensions (W x D x H)	610 x 212.5 x 435 mm	610 x 212.5 x 435 mm	610 x 210 x 634 mm
Weight	42.5 kg	53 kg	81 kg
Fire-Fighting	N/A	Aerosol + Anti-explosion Valve	Aerosol + Anti-explosion Valve

* Test condition: Max. 0.5C charge/discharge at 25±2°C.
** 50A 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.
***** Maximum 6 Batteries for each cluster in series, up to 2 clusters in parallel.

