

YOUR
SMART
ENERGY



SMILE-G3-T10

RESIDENTIAL SERIES

POWER

10 kW
Three Phase

CAPACITY

9.3 kWh Battery Module, Up to 55.8 kWh
4.56 kWh Battery Module, Up to 27.36 kWh



reddot design award 2022



GOOD DESIGN AWARD



KEY FEATURES

3 MPPT for Higher PV Input

Bypass Function for Series Battery

Fast-Suppression Aerosol Fire Defense

Capable of 150% Unbalancing per Phase

SMILE-G3-T10



Model	SMILE-G3-T10
-------	--------------

System Specification

Nominal Output Power	10000 W
Capacity Range	4.56 ~ 55.8 kWh (100% DoD)
Battery Chemistry	LFP (LiFePO ₄)
IP Protection	IP65 (Outdoor)
Warranty	10 Years Product Warranty, 10 Years Battery Performance Warranty

Inverter Technical Specification

Model	SMILE-G3-T10-INV
Coupling	Hybrid Inverter
Max. PV Input Power	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
Start-up Voltage	120 V
MPPT Voltage Range	140 ~ 950 V
Max. PV Short-Circuit Current per MPPT	24 A / 24 A / 24 A
Max. Charging/Discharging Current	40 A
Max. Charging/Discharging Power	10000 W
Rated Frequency	50 / 60 Hz
Rated Voltage	220 V / 380 V, 230 V / 400 V
Rated Output Apparent Power (Grid Port)	10000 VA
Rated Output Apparent Power (Backup Port)	10000 VA
Max. AC input Power (Grid Port)	20000 W
Rated Output Current (Grid Port)	14.5 A
Max. AC Output Current (Grid Port)	29 A
Rated Output Current (Backup Port)	14.5 A
Max. AC Output Current (Backup Port)	29 A
Backup	UPS
Phase	Three Phase
Communication	Ethernet / WiFi / Modbus / API
Dimensions (W x H x D)	610 x 416 x 212.5 mm
Weight	26.7 kg
Ingress Protection(IP) Rating	IP 65
Max. Inverter Efficiency	97.6 %
Humidity	0 ~ 90% (No Condensation)
Operating temperature	-25 °C~60 °C(Charge/Discharge)
Active anti-Islanding method	Integrated
Country of manufacture	China
Safety	IEC 62109, IEC 62040
EMC	IEC 61000
Grid Regulation	AS/NZS 4777.2

Battery Technical Specification

Module Model	SMILE-G3-BAT-4.5S	SMILE-G3-BAT-9.3S
Module Capacity	4.56 kWh	9.3 kWh
Usable Capacity	4.56 kWh (100% DoD)	9.3 kWh (100% DoD)
Nominal Voltage	96 V	96 V
Battery Voltage Range	90 ~ 105.6 V	90 ~ 105.6 V
Modules Connection	1~6 in Series	1~6 in Series
Max. Charging/Discharging Current	50 A / 50 A	52.5 A / 52.5 A
Operating Temperature Range	-20°C~50°C*	-20°C~50°C*
IP Protection	IP 65	IP 65
Dimensions (W*H*D)	610 x 435 x 212.5 mm	610 x 634 x 210 mm
Weight	53 kg	81 kg

* Performance reduction may occur depending on the state of charge and temperature. Optimal operating temperature 15°C ~ 30°C.

