

YOUR
SMART
ENERGY



SMILE-G3

RESIDENTIAL SERIES

POWER

3.6 / 5 kW inverter

CAPACITY

10.1 kWh Battery modular
Expandable to 60.5 kWh



200% PV Input

Grid-Forming Function

Off-Grid Parallel Operation

Faster Response for VPP Control



SMILE-G3



Model	SMILE-G3-S3.6	SMILE-G3-S5	SMILE-G3-B5
System Specification			
Nominal Output Power	3600 W	5000 W	5000 W
Capacity Range	10.1 ~ 60.5 kWh (95% DoD)		
Battery Chemistry	LFP (LiFePO4)		
IP Protection	IP65 (Outdoor)		
System Dimension (W x D x H)	610 x 230 x 1168 mm (with Bracket)		
System Weight	109.5 kg		
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty		
Inverter Technical Specification			
Model	SMILE-G3-S3.6-INV	SMILE-G3-S5-INV	SMILE-G3-B5-INV
Coupling	Hybrid	Hybrid	AC
Max. PV Input Power	7200 W	10000 W	NA
Max. PV Input Current	15 A / 15 A		NA
Max. PV Input Voltage	580 V		NA
MPPT Number/Max. Input Strings Number Per MPPT	2/1		NA
MPPT Voltage Range	100 ~ 550 V		NA
Max. PV Short-circuit Current	18.75 A / 18.75 A		NA
Max. Charging/Discharging Current	60 A		
Max. Charging/Discharging Power	3600 W	5000 W	5000 W
Rated Frequency	50 / 60 Hz		
Rated Voltage	230 V		
Rated output Apparent Power(Grid Port)	3600 VA	5000 VA	5000 VA
Rated output Apparent Power(Backup Port)	3600 VA	5000 VA	5000 VA
Max.AC input Power(Grid Port)	7200 W	10000 W	10000 W
Rated Output Current(Grid Port)	15.6 A	21.7 A	21.7 A
Max.AC Output Current(Grid Port)	15.6 A	21.7 A	21.7 A
Rated Output Current(Backup Port)	15.6 A	21.7 A	21.7 A
Max.AC Output Current(Backup Port)	15.6 A	21.7 A	21.7 A
Max Inverter Efficiency	96.6%		
Backup	UPS		
Communication	Ethernet / WiFi		
Humidity	0~90% (No Condensing)		
Dimension (W x D x H)	610 x 212 x 366 mm		
Weight	19.5 kg		
Safety	IEC 62109, IEC 62040		
EMC	EN61000-6-1/-2 /-3/-4		
Grid Regulation	AS4777.2, NRS 097		
Battery Technical Specification			
Module Mode	SMILE-G3-BAT-10.1P		
Module Capacity	10.1 kWh		
Usable Capacity	9.6 kWh		
Depth of Discharge (DoD)	95%		
Nominal Voltage	96 V		
Battery Voltage Range	91.5 V ~ 106.5 V		
Max. Charging/Discharging Current	60 A		
Operating Temperature Range	-10 °C ~ 50 °C*		
Cycle Life	8000**		
Battery Modules Connection	1 ~ 6 in Parallel		

* When the ambient temperature is too low or too high, the performance of battery may be limited.
 ** Under specific test conditions.



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