

• YOUR
• SMART
• ENERGY



SMILE-G3-S3.6/S5/B5

RESIDENTIAL SERIES

POWER

3.68 / 5 kW

CAPACITY

- 3.8 kWh Battery Module
Expandable from 3.8 to 15.3 kWh
- 4.0 kWh Battery Module
Expandable from 4.0 to 16.0 kWh
- 8.2 kWh Battery Module
Expandable from 8.2 to 49.2 kWh
- 10.1 kWh Battery Module
Expandable from 10.1 to 60.5 kWh

Munich RE



reddot design award 2022



GOOD DESIGN AWARD



200% PV Input

All in One Design

MPPT Shadow Scanning

**Support Dual Power Supply
(Grid & Diesel Generator)**

No Additional High Voltage Box

150% Overload Capability for 30s

Support Multiple VPP Applications

Easy Installation and Maintenance

Bypass Function for Series Battery

PV Inverter Works in Off-Grid Operation



SMILE-G3-S3.6/S5/B5

Model	SMILE-G3-S3.6		SMILE-G3-S5		SMILE-G3-B5	
System Specifications						
Nominal Output Power	3680 W		5000 W		5000 W	
Capacity Range	3.8 ~ 15.3 kWh / 4.0 ~ 16.0 kWh / 8.2 ~ 49.2 kWh / 10.1 ~ 60.5 kWh (95% DoD)					
Battery Chemistry	LFP (LiFePO4)					
Warranty	10 Years Product Warranty, 10 Years Battery Performance Warranty					
Inverter Technical Specifications						
Model	SMILE-G3-S3.6-INV		SMILE-G3-S5-INV		SMILE-G3-B5-INV	
Coupling	Hybrid		Hybrid		AC	
Max. PV Input Power	7360 W		10000 W		N/A	
Max. PV Input Current	15 A / 15 A				N/A	
Max. PV Input Voltage	580 V				N/A	
MPPT Number / Max. Input Strings Number per MPPT	2 / 1				N/A	
MPPT Voltage Range	100 ~ 550 V				N/A	
Max. PV Short-Circuit Current	18.75 A / 18.75 A				N/A	
Max. Charging/Discharging Current	60 A					
Max. Charging/Discharging Power	3680 W		5000 W		5000 W	
Rated Frequency	50 / 60 Hz					
Rated Voltage	220 V / 230 V					
Phase	Single Phase					
Rated Output Current (Grid Port)	16 A		21.7 A		21.7 A	
Rated Output Current (Backup Port)	16 A		21.7 A		21.7 A	
Max. AC Input Power (On-Grid)*	7360 W		10000 W		10000 W	
Backup	UPS					
Communication	Ethernet / WiFi / Modbus / API					
Relative Humidity	0 ~ 90% (No Condensation)					
Dimensions (W x D x H)	610 x 212 x 366 mm					
Weight	19.5 kg					
Safety	IEC 62109, IEC 62040					
IP Protection	IP65					
EMC	EN 61000-6-1/-2/-3/-4					
Grid Regulations	VDE 4105, VDE 0126-01-01, EN 50549-1, CEI 0-21, RD 1699, G98/G99, AS 4777.2, NRS 097					
Battery Technical Specifications						
Module Mode	SMILE-G3-BAT-3.8S	SMILE-G3-BAT-4.0S	SMILE-G3-BAT-8.2P	SMILE-G3-BAT-10.1P		
Nominal Capacity	3.8 kWh	4.0 kWh	8.2 kWh	10.1 kWh		
Usable Capacity	3.6 kWh	3.8 kWh	7.8 kWh	9.6 kWh		
Depth of Discharge (DoD)	95%**					
Nominal Voltage	96 V	96 V	256 V	96 V		
Max. Charging/Discharging Current	40 A***	42 A	32 A****	60 A		
Rated Charging/Discharging Rate	1 C	1 C	1 C	0.5 C		
Operating Temperature Range	-10 °C ~ 50 °C*****					
Cycle Life	10000*****					
Battery Modules Connection	1 ~ 4 in Series	1 ~ 4 in Series	1 ~ 6 in Parallel	1 ~ 6 in Parallel		
IP Protection	IP21	IP65	IP21	IP65		
Dimensions (W x D x H)	610 x 212.5 x 435 mm	610 x 212.5 x 435 mm	610 x 212.5 x 793 mm	610 x 212.5 x 793 mm		
Weight	39.2 kg	42.5 kg	78.3 kg	90 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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