

YOUR
SMART
ENERGY



SMILE-G3-S3.6/S5/B5

RESIDENTIAL SERIES

POWER

3.68 / 5 kW

CAPACITY

4.0 ~ 16.0 kWh with
4.0 kWh Battery Module

4.8 ~ 19.2 kWh with
4.8 kWh Battery Module

9.6 ~ 38.4 kWh with
9.6 kWh Battery Module



Munich RE 

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

SMILE-G3-S3.6/S5/B5

Model	SMILE-G3-S3.6	SMILE-G3-S5	SMILE-G3-B5
System Specifications			
Nominal Output Power	3.68 kW	5 kW	5 kW
Capacity Range	4.0 ~ 38.4 kWh (95% DoD)		
Battery Chemistry	LFP (LiFePO4)		
Warranty	10 Years		

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	7.36 kW	10 kW	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	24 A / 24 A	N/A
Max. Charging/Discharging Current	60 A		
Max. Charging/Discharging Power	3.68 kW	5 kW	5 kW
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)*	7.36 kW	10 kW	10 kW
Backup	UPS		
Communication	Ethernet / WiFi / Modbus / API		
Relative Humidity	0 ~ 90% (No Condensation)		
Dimensions (W x D x H)	610 x 212x 366 mm		
Weight	19.5 kg		
IP Protection	IP65		
Safety	IEC 62109, IEC62040		
EMC	IEC 61000-6-1/-2/-3/-4		
Overvoltage Category	DC II		
Noise	≤35 dB		
Grid Regulation	VDE 4105, VDE 0126-01-01, EN 50549-1, CEI 0-21, RD 1699, G98/G99, AS 4777.2, NRS 097		
Maximum / European Efficiency	95.94 % / 94.71 %		

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 ~ 4	1 ~ 4	1 ~ 4
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

* 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.
 **** Max. charge/discharge current derating may occur with changes in temperature and SoC.



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