

YOUR
SMART
ENERGY



Additional
energy use



Longer
service life



SMILE-G3-S3.6/S5/B5

HOME SERIES

POWER

3.6 / 5 kW

CAPACITY

3.65 kWh modular
expandable up to 14.6 kWh

3.8 kWh modular
expandable up to 15.2 kWh

4.56 kWh modular
expandable up to 18.24 kWh

9.3 kWh modular
expandable up to 37.2 kWh



HYBRID BATTERY

Optimal capacity utilization through pack balancing
100% charge/discharge power at 1C
High reliability through Multi-BMS system
Safe lithium iron phosphate (LFP) cells
Performance warranty up to 25 years
5-year all-risk insurance (optional)

HYBRID INVERTER

UPS capability
Intelligent off-grid capability
Price signaling capability
Wall or floor mounting
Anti-shading function
Smart Home Ready

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	
Usabe Capacity Range	3.65 - 14.6 kWh / 3.8 - 15.2 kWh / 4.56 - 18.24 kWh / 9.3 - 37.2 kWh			
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	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 / Strings 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	
Nominal Frequency	50 / 60 Hz			
Nominal Voltage	220 V / 230 V			
Phase	Single Phase / 3-Phase Compensation			
Nominal Output Current (Grid Port)	16 A	21.7 A	21.7 A	
Nominal Output Current (Backup Port)	16 A	21.7 A	21.7 A	
Nominal 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×D×H)	610 × 212 × 366 mm			
Weight	19.5 kg			
Ingress Protection	IP65			
Safety	IEC 62109-1/-2,IEC 62040			
EMC	IEC 61000-6-1/-2/-3/-4			
Grid Regulation	VDE 4105, VDE 0126-1-1, EN 50549-1, CEI O-21, RD1699, G98/G99, AS 4777.2, NRS 097, C10/11			
Overvoltage Category	DC Type II according to EN / IEC 61643			
Cooling	Natural Convection			
Noise	≤ 35 dB			
Maximum/European Efficiency	97 % / 96.2 %			
Battery Technical Specifications				
Model	SMILE-G3-BAT-3.8S	SMILE-G3-BAT-4.0S	SMILE-G3-BAT-4.5S	SMILE-G3-BAT-9.3S
Nominal Capacity	3.8 kWh	4.0 kWh	4.56 kWh	9.3 kWh
Usable Capacity	3.65 kWh	3.8 kWh	4.56 kWh	9.3 kWh
Depth of Discharge (DoD)	95 % *	95 % *	100% *	100% *
Nominal Voltage	96 V	96 V	96 V	96 V
Max. Charging/Discharging Current	40 A	42 A	50 A	52.5 A
Operating Temperature Range	-10°C ~ 50 °C **	-10°C ~ 60 °C **	-20 °C ~ 50 °C **	-20 °C ~ 50 °C **
Cycle Life	10,000 ***	10,000 ***	10,000 ***	10,000 ***
Modular Connection	1 ~ 4	1 ~ 4	1 ~ 4	1 ~ 4
IP Protection	IP21	IP65	IP65	IP65
Dimensions (W x D x H)	610 × 212.5 × 435 mm	610 × 212.5 × 435 mm	610 × 212.5 × 435 mm	610 × 210 × 634 mm
Weight	39.2 kg	42.5 kg	53 kg	81 kg
Noise	≤ 35 dB	≤ 25 dB	≤ 35 dB	≤ 35 dB
Fire-Fighting	Aerosol	N/A	Aerosol	Aerosol

* Test condition: Max. 0.5C charge/discharge at 25±2°C.

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

*** Under specific test conditions.



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