

YOUR
SMART
ENERGY



up to
>12%

Additional
energy use



bis zu
>20%

Longer
service life



SMILE-G3-S5

HOME SERIES

POWER

5 (4.6 DE) kW

CAPACITY

3.65 kWh modular
expandable up to 14.6 kWh



LUMIT[®]
Versicherung

Munich RE



reddot design award 2022



GOOD DESIGN AWARD



HYBRID BATTERY

World
First

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 and floor mounting

Anti-shading function

Smart Home Ready



*Net Promoter Score (Recommendation Rate); Source: EUPD Research 2024



SMILE-G3-S5



Model		SMILE-G3-S5
Energy Storage System		
Max. AC Nominal Power		5,000 W / 4,600 W (DE)
Rated Apparent Power		5,000 W / 4,600 W (DE)
Usable Capacity		3.65 ~ 14.6 kWh
Cell Technology		LFP (LiFePO4) cobalt-free
Ingress Protection		IP 21 (Battery), IP 65 (Inverter)
Product Warranty		10 years
Battery Performance Warranty		10 years linear, extendable up to 25 years
Max. Efficiency		97%
European Efficiency		96.2%
Hybrid Inverter		
Model		SMILE-G3-S5-INV
Max. PV Input Power		10,000 W
Max. PV Input Current		15 A / 15 A
Max. PV Input Voltage		580 V
MPPT Count/Strings per MPPT		2 / 1
MPPT Voltage Range		100 ~ 550 V
Max. PV Short-Circuit Current		24 A
Max. Charge/Discharge Current		60 A
Max. Charge/Discharge Power*		5000 W / 4600 W (DE)
Grid Frequency		50 / 60 Hz
Nominal Voltage		220 V / 230 V
Grid Connection		Single-phase / 3-phase compensation
Maximum apparent power		5000 VA / 4600 VA (DE)
Nominal Output Current (AC)		21.7 A
Nominal Output Current (Backup)		21.7 A
Backup Function		UPS
Communication		Ethernet / WiFi / Modbus / API
Relative Humidity		0 ~ 90% (No Condensation)
Dimensions (W x H x D)		610 x 366 x 212 mm
Weight		19.5 kg
Certifications		IEC 62109, IEC 62040, EN 61000 - 6 - 1/2/3/4, EN 61000 - 4 - 16/18/29
Grid Compliance		VDE 4105, EN 50549-1
DC Overvoltage Protection		Yes (Protection Type II according to EN / IEC 61643)
Cooling		Natural Convection
Noise Emission		≤ 35 dB
Battery		SMILE-G3-BAT-3.8S
Usable Capacity		3.65 kWh
Nominal Voltage		96 V
Operating Temperature		-10°C to 50°C, optimal 15°C to 30°C
Weight		39.2 kg
Dimensions (W x H x D)		610 x 435 x 212.5 mm
Cycle Life		10,000 ****
Max. Charge / Discharge Current		40 A **
Modular Units		1 ~ 4 in series
Expansion		Max. 36 months after commissioning ***
Noise Emission		≤ 35 dB

* Performance reduction may occur depending on the state of charge and temperature.

** In off-grid mode, discharge up to 50 A is possible for up to 30 minutes.

*** Subject to availability.

**** Under specific test conditions.



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