YOUR
SMART
ENERGY

Alphaess

SMILE-G3-S3.6

RESIDENTIAL SERIES

POWER

3.68 kW

CAPACITY

4.0 kWh Battery Modular
Expandable To 16.0 kWh



+

FAST FCAS

VPP Ready

200% PV Input

Support Dual Power Supply (Grid & Diesel Generator)

SMILE-G3-S3.6

Model	SMILE-G3-S3.6
System Specification	
Nominal Output Power	3680 W
Capacity Range	4.0 ~ 16.0 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP65 (Outdoor)
System Dimension (W x D x H)	610 x 250 x 1161 mm (with Bracket)
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty
Inverter Technical Specification	
Model	SMILE-G3-S3.6-INV
Coupling	Hybrid
Max. PV Input Power	7360 W
Max. PV Input Current	15 A / 15 A
Max. PV Input Voltage	580 V
MPPT Number / Max. Input Strings Number per MPPT	2/1
MPPT Voltage Range	100 ~ 550 V
Max. PV Short-Circuit Current	18.75 A / 18.75 A
Max. Charging/Discharging Current	60 A
Max. Charging/Discharging Power	3680 W
Rated Frequency	50 / 60 Hz
Rated Voltage	230 V
Rated Output Apparent Power (Grid Port)	3680 VA
Rated Output Apparent Power (Backup Port)	3680 VA
Max. AC input Power (Grid Port)	7360 W
Rated Output Current (Grid Port)	16 A
Max. AC Output Current (Grid Port)	16 A
Rated Output Current (Backup Port)	16 A
Max. AC Output Current (Backup Port)	16 A
Max. Inverter Efficiency	97.3%
Backup	UPS
Communication	Ethernet / WiFi
Humidity	0~90% (Non-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, VDE 0126, VDE 4105, EN 50549
Battery Technical Specification	
Module Mode	SMILE-G3-BAT-4.0S
Module Capacity	4.0 kWh
Usable Capacity	3.8 kWh
Depth of Discharge (DoD)	95%
Nominal Voltage	96 V
Max. Charging/Discharging Current	42 A
Operating Temperature Range	-10 °C ~ 50 °C*
Cycle Life	8000**
Battery Modules Connectable	1~4 in series connection

* Max. charge/discharge current derating will occur related to temperature and SOC.
** Under specific test conditions.

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