



YOUR
SMART
ENERGY

SMILE-S6-HV

RESIDENTIAL SERIES

POWER

6 kW

CAPACITY

5 kWh Battery Module Expandable to 30 kWh

8.2 kWh Battery Module Expandable to 49.2 kWh



UPS Ability

Modular Design

24/7 Online Monitoring

Diesel Generator Compatible



SMILE-S6-HV



Model		SMILE-S6-HV	
System Specifications			
Nominal Output Power	6000 W		
Capacity Range	5 ~ 30.0 kWh (95% DoD)	8.2 ~ 49.2 kWh (95% DoD)	
Battery Chemistry	LFP (LiFePO ₄)		
IP Protection	IP65 (Outdoor) / IP21 (Indoor)		
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty		

Inverter Technical Specifications			
Model	SMILE-S6-HV-INV	Rated Voltage	230 V
Max. PV Input Power	9000 W	Phase	Single Phase
Max. PV Input Current	2 x 15 A	Backup	UPS
MPPT Number	580 V	Communication	Ethernet / WIFI / 4G
MPPT Number / Max. Input Strings Number per MPPT	2 / 1	Start-Up Voltage	100 V
MPPT Voltage Range	100 ~ 550 V	Relative Humidity	0 ~ 90% (No Condensation)
Max. PV Short-Circuit Current	2 x 18.75 A	Dimensions (W x D x H)	580 x 230 x 440 mm
Max. Charging/Discharging Current	40 A	Weight	25 kg
Max. Charging/Discharging Power	6000 W	Safety	IEC 62109, IEC 62040
Rated Frequency	50 / 60 Hz	EMC	EN 61000-6-1/-2/-3/-4

Grid Regulations VDE-AR-N 4105, EN 50549, CEI 0-21, G99, TOR Erzeuger, AS 4777.2, PEA

Battery Technical Specifications		
Module Model	SMILE-BAT-5PH	SMILE-BAT-8.2PH
Module Capacity	5.0 kWh	8.2 kWh
Usable Capacity	4.8 kWh	7.8 kWh
Nominal Voltage	153.6 V	256 V
Max. Charging/Discharging Current	32 A	32 A
Operating Temperature Range	-10 °C ~ 55 °C*	-10 °C ~ 55 °C*
Cycle Life	10000**	10000**
Battery Modules Connection	1 ~ 6 in Parallel	1 ~ 6 in Parallel

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

** Under specific test conditions.



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