

• YOUR
• SMART
• ENERGY



SMILE-S6-HV

RESIDENTIAL SERIES

POWER

6 kW

CAPACITY

8.2 kWh Battery Modular
Expandable to 49.2 kWh



VPP Ready

Full Off-grid Compatible

Full 6kVA Heavy Duty Backup

UPS Ability

Easy Installation and Expansion

SMILE-S6-HV



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

Inverter Technical Specification			
Model	SMILE-S6-HV-INV	Phase	Single-Phase
Max. PV Input Power	9000 W	Backup	UPS
Max. PV Input Current	2 x 15 A	Display	LCD
Nominal PV Input Voltage	360 V	Communication	Ethernet / WIFI
MPPT Number/Max. input strings number per MPPT	2/1	Start Up Voltage	100 V
MPPT Voltage Range	100 ~ 550 V	Humidity	0 ~ 95% (No Condensing)
Max. PV Short-circuit Current	2 x 18.75 A	Dimension (W x D x H)	580 x 230 x 606 mm
Max. Charging/Discharging Current	40 A	Weight	27 kg
Max. Charging/Discharging Power	6000 W	Safety	IEC 62109, IEC 62619
Rated Frequency	50 / 60 Hz	EMC	EN61000-6-1/-2/-3/-4
Rated Voltage	230 V	Grid Regulation	AS4777.2

Battery Technical Specification	
Module Model	SMILE-BAT-8.2PH
Module Capacity	8.2 kWh
Usable Capacity	7.8 kWh
Nominal Voltage	256 V
Max. Charging/Discharging Current	38.4 A
Operating Temperature Range	-10 °C ~ 55 °C*
Cycle Life	10000**
Battery Modules Connection	1 ~ 6 in parallel

* Max. charge/discharge current derating will occur related to temperature and SOC.

** Under specific test conditions



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