

● YOUR
● SMART
● ENERGY



SMILE-S5/B5

RESIDENTIAL SERIES

POWER

5 kW Inverter

CAPACITY

5.04 kWh Battery Modular
Expandable to 30.24 kWh



All-in-one Module

VPP Ready

Slim but Powerful

Easy Installation & Maintenance

SMILE-S5/B5



Model	SMILE-S5	SMILE-B5
System Specification		
Nominal Output Power	5000 W	5000 W
Capacity Range	5.04 ~ 30.24kWh (95% DoD)	
Battery Chemistry	LFP (LiFePO4)	
IP Protection	IP65 (Outdoor)	
System Dimension (W x D x H)	640 x 250 x 745 mm	
System Weight	75 kg	
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	
Inverter Technical Specification		
Model	SMILE-S5-INV	SMILE-B5-INV
Coupling	Hybrid	AC
Max. PV Input Power	8000 W	NA
Max. PV Input Current	15 A / 15 A	NA
Nominal PV Input Voltage	330 V	NA
MPPT Number/Max. Input Strings Number Per MPPT	2/1	NA
MPPT Voltage Range	90 ~ 520 V	NA
Max. PV Short-circuit Current	22.5 / 22.5 A	NA
Max. Charging/Discharging Current	100 A	100 A
Max. Charging/Discharging Power	5000 W	5000 W
Rated Frequency	50 / 60 Hz	
Rated Voltage	230 V	
Max. AC Output Current	21.7 A	21.7 A
Max. AC Input Current	33 A	33 A
Backup	UPS	
Communication	Ethernet / WiFi	
Humidity	0~95% (No Condensing)	
Dimension (W x D x H)	640 x 250 x 350 mm	
Weight	21 kg	
Safety	IEC 62109, IEC 62477	
EMC	EN61000-6-1/-2/-3/-4	
Grid Regulation	AS4777.2	
Battery Technical Specification		
Module Mode	SMILE-BAT-5P	
Module Capacity	5.04 kWh	
Usable Capacity	4.79 kWh	
Depth of Discharge (DoD)	95%	
Nominal Voltage	48 V	
Max. Charging/Discharging Current	52.5 A	
Operating Temperature Range	-10°C ~ 50°C*	
Cycle Life	6000	
External Battery Expansion	1 ~ 5 in parallel	

* When the ambient temperature is too low or too high, the performance of battery may be limited.



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