

● YOUR
● SMART
● ENERGY



SMILE-S5/B5

RESIDENTIAL SERIES

POWER

5 kW

CAPACITY

5.04 kWh Battery Module
Expandable to 30.24 kWh



All-In-One Module

24/7 Online Monitoring

Slim but Powerful

Easy Installation & Maintenance

SMILE-S5/B5



Model	SMILE-S5	SMILE-B5
System Specifications		
Nominal Output Power	5000 W	5000 W
Capacity Range	5.04 ~ 30.24kWh (95% DoD)	
Battery Chemistry	LFP (LiFePO ₄)	
IP Protection	IP65 (Outdoor)	
System Dimensions (W x D x H)	640 x 250 x 745 mm	
System Weight	75 kg	
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty	

Inverter Technical Specifications		
Model	SMILE-S5-INV	SMILE-B5-INV
Coupling	Hybrid	AC
Max. PV Input Power	8000 W	N/A
Max. PV Input Current	15 A / 15 A	N/A
Nominal PV Input Voltage	330 V	N/A
MPPT Number/Max. Input Strings Number per MPPT	2 / 1	N/A
MPPT Voltage Range	90 ~ 520 V	N/A
Max. PV Short-Circuit Current	22.5 / 22.5 A	N/A
Max. Charging/Discharging Current	100 A	
Max. Charging/Discharging Power	5000 W	
Rated Frequency	50 / 60 Hz	
Rated Voltage	230 V	
Max. AC Output Current	21.7 A	
Max. AC Input Current	33 A	
Backup	UPS	
Communication	Ethernet / WiFi	
Humidity	0 ~ 95% (No Condensation)	
Dimensions (W x D x H)	640 x 250 x 350 mm	
Weight	21 kg	
Safety	IEC 62109, IEC 62477, EN 50549	
EMC	EN 61000-6-1/-2/-3/-4	
Grid Regulation	AS 4777.2	

Battery Technical Specifications	
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

* Test Condition: Max. 0.5C charge & discharge at 25±2°C.

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



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