

• 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/ VA	5000 W /VA
Capacity Range	5.04 ~ 30.24 kWh (95% DoD)	
Battery Chemistry	LFP (LiFePO4)	
IP Protection	IP65 (Outdoor)	
System Dimension (W x D x H)	640 x 250 x 695 mm	
System Weight	70 kg	68 kg
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	
Inverter Technical Specification		
Coupling	Hybrid	AC
Max. Input DC Voltage	600V	NA
Max. PV Input Power	8000 W	NA
Max. PV Input Current	15 A / 15 A	NA
Start-up voltage	120 V	NA
Minimum operating voltage	90 V	NA
MPPT No/Strings 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	
Rated. AC Output Current	21.7 A	21.7 A
Max. AC Input Current	33 A	33 A
UPS Power	5000 W/VA	
Efficiency	96.7%	96.5%
Humidity	0~95% (No Condensing)	
Dimension (W x D x H)	530 x 250 x 350 mm	
Inverter Weight	25 kg	23 kg
Operating Temperature Range	-25 to +60(derating above 45 °C)	
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	
Dimension (W x D x H)	650 x 250 x 345 mm	
Inverter Weight	45 kg	
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	

* The system will be named as SMILE-S5, SMILE S5 II, SMILE-S5 III, SMILE-S5 IV, SMILE-S5 V, SMILE-S5 VI with 1~6 batteries modules.

** The system will be named as SMILE-B5, SMILE B5 II, SMILE-B5 III, SMILE-B5 IV, SMILE-B5 V, SMILE-B5 VI with 1~6 batteries modules.

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



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