

Datasheet

YOUR
SMART
ENERGY



SMILE-M5

RESIDENTIAL SERIES

POWER

5 kW Hybrid Inverter
Single Phase

CAPACITY

5 ~ 30 kWh with
5 kWh Battery Module



Quick Setup with Stackable Design

Fast-Suppression Aerosol Fire Defense

Boost Profits with 200% PV Oversizing

Expert in All-in-One System

SMILE-M5



Model	SMILE-M5
System Specification	
Nominal Output Power	5000 W
Max. Battery Capacity	5 ~ 30 kWh (100% DoD)
Battery Chemistry	LFP (LiFePO4)
Warranty	10 Years Warranty
Inverter Technical Specification	
Model	SMILE-M5-S-INV
Inverter Type	Hybrid Inverter
Max. PV Input Power	10000 W
Max. PV Input Current (per MPPT)	16 A
Max. PV Input Voltage	550 V
MPPT Number / Max. Input Strings Number per MPPT	2/1
MPPT Voltage Range	100 ~ 550 V
Max. PV Short-Circuit Current (per MPPT)	25 A
Max. Charging / Discharging Current	100 A
Max. Charging / Discharging Power	5000 W
Rated Frequency	50 / 60 Hz
Rated Voltage	230 V
Phase	Single Phase
Backup	UPS
Communication	Ethernet / WiFi
Dimensions (W*H*D)	620 * 240 * 412.5 mm
Weight	19.5 kg
Ingress Protection(IP) Rating	IP 65
Safety	IEC62109-1/-2, IEC62477
EMC	IEC 61000-6-1/3, IEC61000-302/3
Grid Regulation	AS / NZ4777.2
Battery Technical Specification	
Module Model	SMILE-M-BAT-5P
Nominal Capacity	5 kWh
Modules Connection	1 ~ 6 in parallel
Max. Charging/Discharging Current	100 / 100 A
Operating Temperature Range	0 ~ 50 °C (Charge); -10 ~ 50 °C (Discharge)
IP Protection	IP 65
Dimensions (W*H*D)	620 * 240 * 390 mm
Weight	49.5 kg



ALPHAESS Australia

✉ australia@alpha-ess.com

☎ +61 02 90007676

📍 8/15-21 Gibbes Street Chatswood NSW 2067 Australia