

YOUR
SMART
ENERGY



SMILE-M8/9/10-S

RESIDENTIAL SERIES

POWER

8 / 9 / 10 kW

CAPACITY

13.99 kWh Battery Module, Up to 27.98 kWh



KEY FEATURES

- Expert in All-in-One System
- Perfectly aligned with CHBP
- Boost Profits with 200% PV Oversizing
- Fast-Suppression Aerosol Fire Defense
- Fully compatible with VPP platforms and Australian DER standards

SMILE-M8/9/10-S



Model	SMILE-M8-S	SMILE-M9-S	SMILE-M10-S
System Specifications			
Nominal Output Power	8 kW	9 kW	10 kW
Capacity Range	13.99 ~ 27.98 kWh (100% DoD)		
IP Protection	IP65		
Country Of Manufacture	China		
Warranty	10 Years Product Warranty, 10 Years Battery Performance Warranty		
Inverter Technical Specifications			
Model	SMILE-M8-S-INV	SMILE-M9-S-INV	SMILE-M10-S-INV
Phase	single-phase		
Max. PV Input Power	16 kW	18 kW	20 kW
Max. PV Input Current per MPPT	20 / 20 / 20 / 20 A		
Max. PV Input Voltage	600 Vd.c.		
MPPT Number / Max. Input Strings Number per MPPT	4 / 1		
MPPT Voltage Range	60 - 550 Vd.c.		
Start-up Voltage	70 Vd.c.		
Max. PV Short-Circuit Current per MPPT	30 / 30 / 30 / 30 A		
Max. Charging/Discharging Current	210 / 210 A		
Max. Charging/Discharging Power	8.8 kW	9.9 kW	11 kW
DC Voltage Range for Battery Port	40 - 60 Vd.c.		
Rated Voltage	220 / 230 V, L / N / PE		
Rated Frequency	50 / 60 Hz		
Rated Output Apparent Power(Grid Port)	8 kVA	9 kVA	10 kVA*
Rated Output Apparent Power (Backup Port)	8 kVA	9 kVA	10 kVA
Max. AC Input Apparent Power (Grid Port)	8 kVA	9 kVA	10 kVA*
Rated Output Current (Grid Port)	34.7 A	39.1 A	43.4 A
Max. Output Current (Grid Port)	34.7 A	39.1 A	43.4 A
Rated Output Current (Backup Port)	34.7 A	39.1 A	43.4 A
Max. AC Output Current (Backup Port)	34.7 A	39.1 A	43.4 A
Max. Inverter Efficiency	97.47%		
Communication	LAN, Wi-Fi, Bluetooth		
Relative Humidity	0~100% (No Condensation)		
Dimensions (W*D*H)	620 * 239.5 * 570 mm		
Maximum Altitude	2000 m		
Weight	35.5 kg		
Certification	IEC 62109-1/-2、AS 4777.2、IEC 61000-6-1/3		
Battery Technical Specifications			
Module Model	SMILE-M-BAT-13.9P		
Battery Type	LFP (LiFePO4)		
Modules Connection	1~2		
Usable Capacity	13.99 ~ 27.98 kWh		
Nominal Voltage	48 V		
Max. Charging/Discharging Current	105 A		
Operating Voltage Range	45 to 54 V		
Operating Temperature Range	-10 to +50°C		
IP Protection	IP65		
Dimensions (W*D*H)	620 * 240 * 710 mm		
Weight	108 kg		

*9.999 kVA for Australia.

**Performance reduction may occur depending on the state of charge and temperature.Optimal operating temperature 15°C ~ 30°C.



Alpha ESS Co., Ltd.

✉ info@alpha-ess.com

☎ +86 513 8060 6891

🌐 www.alphaess.com

🏠 No. 1086, Bihua Road, Tongzhou District, Nantong City, Jiangsu Province, China

Alpha ESS Europe GmbH

✉ contact@eu.alpha-ess.com

☎ +49 6196 7863485

🌐 https://eu.alphaess.com/

🏠 Alfred-Herrhausen-Allee 3-5 65760 Eschborn, Germany

Alpha ESS Australia Pty. Ltd.

✉ australia@alpha-ess.com

☎ +61 02 90007676

🌐 www.alphaess.au

🏠 31 Richmond Rd, Homebush West NSW 2140

Alpha ESS South Africa (Pty.) Ltd.

✉ info.sa@alpha-ess.com

☎ +61 010 745 5653

🌐 https://africa.alphaess.com/

🏠 Bryanston, Johannesburg, 2191