

• YOUR
• SMART
• ENERGY



SMILE-S5-HV

RESIDENTIAL SERIES

CAPACITY ►

5 / 8.2 kWh modular
expandable to 49.2 kWh



UPS ability

Modular design

24/7 Monitoring

Diesel generator compatible



SMILE-S5-HV



Model		SMILE-S5-HV	
System Specification			
Nominal Output Power	5000 W		
Capacity Range	5 ~ 30.0 kWh (95% DoD)	8.2 ~ 49.2 kWh (95% DoD)	
Battery Chemistry	LFP (LiFePO4)		
IP Protection	IP65 (Outdoor)		
Warranty	5 Year Product Warranty, 10 Year Performance Warranty		
Inverter Technical Specification			
Max. PV Input Power	8000 W	Rated AC Voltage	230 V
Max. PV Input Current	2 x 12.5 A	Rated AC Output Current	21.7A
Max DC Voltage	580V	Rated/UPS Output Power	5000VA
Min DC (Start-Up) Voltage	100V	Communication	Ethernet / WIFI / 4G
MPPT Number/Max. input strings number per MPPT	2/1	Efficiency	96%
MPPT Voltage Range	100 ~ 550 V	Humidity	0~90% (No Condensing)
Max. MPPT Short-circuit Current	2 x 18.75 A	Dimension (W x D x H)	580 x 230 x 440 mm
Max. Charging/Discharging Current	40 A	Weight	25 kg
Max. Charging/Discharging Power	6000 W	Safety	IEC 62109, IEC 62040
Rated Frequency	50 / 60 Hz	EMC	EN61000-6-1/-2/-3/-4
Grid Regulation	AS4777.2, CEI0-21, G99, G100, NRS 097, EN50549, PEA		
Battery Technical Specification			
Module Model	SMILE-BAT-5PH	SMILE-BAT-8.2PH	
Module Capacity	5.0 kWh	8.2 kWh	
Usable Capacity	4.8 kWh	7.8 kWh	
Nominal Voltage	153.6 V	256 V	
Max. Charging/Discharging Current	32 A		
Operating Temperature Range	-10 °C ~ 55 °C*		
Cycle Life	10000**		
Battery Modules Connection	1 ~ 6 in parallel		

* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

** Under specific test conditions

Made in China



Headquarter: Alpha ESS Co., Ltd.

☎ +86 513 8060 6891
✉ info@alpha-ess.com
🌐 www.alpha-ess.com
📍 Jiuhua Road 888, Nantong High-Tech Industrial Development Zone, Nantong City, 226300

Alpha ESS Suzhou Co., Ltd.

☎ +86 512 6828 7609
✉ info@alpha-ess.com
🌐 www.alpha-ess.com
📍 Building 10-A, Canal Town Industrial Park, 99 Taihu E Rd, Wuzhong District, Suzhou 215000

Australia: Alpha ESS Australia Pty. Ltd.

☎ +61 402 500 520 (Sales)
+61 1300 968 933 (Technical Support)
✉ australia@alpha-ess.com
🌐 www.alpha-ess.com.au
📍 Unit 1, 2 Ralph Street Alexandria NSW 2015

Germany: Alpha ESS Europe GmbH

☎ +49 6103 4591 601
✉ europe@alpha-ess.de
🌐 www.alpha-ess.de
📍 Paul-Ehrlich-Straße 1a, D-63225 Langen, Hessen

Italy: Alpha ESS Italy S.r.l.

☎ +39 599 239 50
✉ info@alpha-ess.it
🌐 www.alpha-ess.it
📍 Via Loda,17-41013 Castelfranco Emilia (MO)

Korea: Alpha ESS Korea Co., Ltd.

☎ +82 64 721 2004
✉ korea@alpha-ess.com
📍 2F, 19-4, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea

UK: Alpha ESS UK Ltd.

✉ uk@alpha-ess.com
📍 Drake House, Long Street, Dursley, gl11 4hh