

SMILE-S5



Model	SMILE-S5
System Specification	
Max. AC Output Power	5000 W
Capacity Range	5.04 ~ 30.24 kWh
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP65 (Outdoor)
Warranty	5 Year Product Warranty, can be extended to 10 Years

Inverter Technical Specification			
Model	SMILE-S5-INV	Rated Frequency	50 / 60 Hz
Max. PV Input Power	8000 W	Phase	Single-Phase
Max. PV Input Current	2 x 15 A	Backup	UPS
Nominal PV Input Voltage	330 V	Communication	Ethernet / WIFI
Rated Voltage	120 V	Start Up Voltage	120 V
MPPT Number/ Max. input strings number	2/1	Humidity	0~95% (No Condensing)
MPPT Voltage Range	90 ~ 520 V	Dimension (W x D x H)	640 x 250 x 350 mm
Max. PV Short-circuit Current	2 x 22.5 A	Weight	20 kg
Max. Charging/ Discharging Current	100 A	Safety	IEC 62109, IEC 62477
Max. Charging/ Discharging Power	5000 W	EMC	EN61000-6-1/-2/-3/-4
Grid Regulation	AS4777.2, CEI 0-21, G99, G100, EN50549, RD1699, VDE 0126		

Battery Technical Specification	
Module Model	SMILE-BAT-5P
Module Capacity	5.04 kWh
Usable Capacity	4.79 kWh
Nominal Voltage	48 V
Rated. Charging/Discharging Current	52.5 A
Operating Temperature Range	-10 °C ~ + 50 °C *
Cycle Life	6000
Battery Modules Connection	1 ~ 5 in parallel

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



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