



# SMILE-G3-S5



<b>Model</b>	SMILE-G3-S5
<b>System Specification</b>	
Rated Output Power	5000 W
Rated Output Apparent Power	5000 VA
Capacity Range	10.1 ~ 60.5 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP65
System Dimension (W x D x H)	610 x 230 x 1168 mm (with Bracket)
System Weight	109.5 kg
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty
<b>Inverter Technical Specification</b>	
Model	SMILE-G3-S5-INV
Coupling	Hybrid
Max. PV Input Power	10000 W
Max. PV Input Current	15 A / 15 A
Max. PV Input Voltage	580 V
MPPT Number/Max. Input Strings Number Per MPPT	2/1
MPPT Voltage Range	100 ~ 550 V
Max. PV Short-circuit Current	18.75 A / 18.75 A
Max. Charging/Discharging Current	60 A
Max. Charging/Discharging Power	5000 W
Rated Frequency	50 / 60 Hz
Rated Voltage	230 V
Rated Output Apparent Power (Grid Port)	5000 VA
Rated Output Apparent Power (Backup Port)	5000 VA
Max. AC input Power (Grid Port)	10000 W
Rated Output Current (Grid Port)	21.7 A
Max. AC Output Current (Grid Port)	21.7 A
Rated Output Current (Backup Port)	21.7 A
Max. AC Output Current (Backup Port)	21.7 A
Max Inverter Efficiency	97%
Backup	UPS
Communication	Ethernet / WiFi
Humidity	0~90% (No Condensing)
Dimension (W x D x H)	610 x 212 x 366 mm
Weight	19.5 kg
Safety	IEC 62109, IEC 62040
EMC	EN61000-6-1/-2 /-3/-4
Grid Regulation	AS4777.2, NRS 097
<b>Battery Technical Specification</b>	
Module Mode	SMILE-G3-BAT-10.1P
Module Capacity	10.1 kWh
Usable Capacity	9.6 kWh
Depth of Discharge (DoD)	95%
Nominal Voltage	96 V
Battery Voltage Range	91.5 V ~ 106.5 V
Max. Charging/Discharging Current	52.5 A
Operating Temperature Range	-10 °C ~ 50 °C*
Cycle Life	8000**
Battery Modules Connection	1 ~ 6 in Parallel

\* When the ambient temperature is too low or too high, the performance of battery may be limited.  
 \*\* Under specific test conditions.



**Alpha ESS Co., Ltd.**

☎ +86 513 8060 6891  
 ✉ info@alpha-ess.com  
 🌐 www.alphaess.com  
 📍 Jihua 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.alphaess.com  
 📍 Building 10-A, Canal Town Industrial Park, 99 Taihu E Rd, Wuzhong District, Suzhou 215000

**Alpha ESS Europe GmbH**

☎ +49 610 3459 1601  
 ✉ europe@alpha-ess.de  
 🌐 www.alphaess.de  
 📍 Paul-Ehrlich-Strasse 1a, D-63225 Langen, Hessen

**Alpha ESS Australia Pty. Ltd.**

☎ +61 402 500 520 (Sales)  
 +61 1300 968 933 (Technical Support)  
 ✉ info@alpha-ess.com  
 🌐 www.alphaess.com

**Alpha ESS Italy S.r.l.**

☎ +39 339 462 4288  
 ✉ info@alpha-ess.it  
 🌐 www.alphaess.com  
 📍 Via Don Minzoni, 17, Calenzano Firenze 50041

**Alpha ESS UK Ltd.**

☎ +44 145 354 5222  
 ✉ info@alpha-ess.com  
 📍 Drake House, Long Street, Dursley, gl11 4hh

**Alpha ESS International Pte. Ltd.**

☎ +65 6513 1125 / +65 6513 1126  
 ✉ Singapore@alpha-ess.com  
 📍 2 Corporation Road #01-06A Corporation Place Singapore 618494

**Alpha ESS USA, Inc.**

☎ +1 408 368 7828  
 ✉ usa@alpha-ess.com  
 📍 Unit 5, 2180 S Ivanhoe St, Denver, CO 80222

**Alpha ESS Korea Co., Ltd.**

✉ info@alpha-ess.com  
 📍 2F, 19-4, Nohyong 11-gil, Jeju-si, Jeju-do, Republic of Korea