

• YOUR
• SMART
• ENERGY



SMILE-B3-PLUS

RESIDENTIAL SERIES

POWER

3 kW Inverter

CAPACITY

5.04 kWh Battery Modular
Expandable to 30.24 kWh



UPS Ability

Cost-effective

All-in-one Module

24/7 Online Monitor

Fit for All PV Inverters

Continuous 3kW Backup

Easy Installation and Expansion

SMILE-B3-PLUS



Model	SMILE-B3-PLUS
System Specification	
Max. AC Output Power	3000 W
Max. AC Input Power	6000 W
IP Protection	IP65
Dimension (W x D x H)	640 x 250 x 725 mm
Weight	60 kg
Operating Temperature Range	-10 °C ~ 50 °C*
Warranty	5 Year Product Warranty, 10 Year Battery Warranty
Inverter Technical Specification	
Max. AC Input Current	26 A
Nominal AC Input Voltage	230 V
Battery Voltage Range	40 ~ 58 V
Max. Charging/Discharging Current	60 A
Max. Charging/Discharging Power	3000 W
Phase	Single-Phase
Safety	IEC 62109, IEC 62477
Grid Regulation	AS 4777.2, VDE 4105, VDE 0126
Battery Technical Specification	
Module Capacity	5.04 kWh
Usable Capacity	4.79 kWh
Depth of Discharge (DoD)	95%
Module Nominal Voltage	48 V
Cycle Life	6000
Max. Charging/Discharging Current	60 A
External Battery Expansion	1 ~ 5 SMILE-BAT-5P in parallel
Certification	UN38.3, IEC 62619 (Cell), IEC 62619 (Pack)

* When the ambient temperature is too low or too high, the performance of battery may be limited.



Alpha ESS Co., Ltd.

☎ +86 513 8060 6891
 ✉ info@alpha-ess.com
 🌐 www.alphaess.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.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, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea