

• 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	3000 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	13 A
Nominal AC Input Voltage	230 V
Battery Voltage Range	40 ~ 58 V
Max. Charging/Discharging Current	52.5 A
Max. Charging/Discharging Power	3000 W
Phase	Single-Phase
Safety	IEC 62619
Grid Regulation	AS4777
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	52.5 A
External Battery Expansion	1 ~ 5 SMILE-BAT-5P in parallel
Certification	UN38.3, IEC 62619 (Cell), IEC 62619 (Pack)

* 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

📍 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.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

USA: Alpha ESS USA, Inc.

✉ USA@alpha-ess.com
📍 638 S Ahwanee Ter Sunnyvale, California, 94085 United States of America

UK: Alpha ESS UK Ltd.

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

Singapore: Alpha ESS International Pte. Ltd.

✉ Singapore@alpha-ess.com
📍 2 Corporation Road #01-06A Corporation Place Singapore 618494