

● YOUR
● SMART
● ENERGY



SMILE-B3

RESIDENTIAL SERIES

CAPACITY ▶

2.9 kWh modular
expandable to 17.2 kWh



AC-Coupling

Built-in battery

Modular design

Easy installation and
low maintenance

24/7 Monitoring

SMILE-B3



Model	SMILE-B3
System Specification	
Max. AC Output Power	3000 W
Max. AC Input Power	3000 W
IP Protection	IP65
Dimension (W x D x H)	610 x 236 x 625 mm
Weight	45 kg
Operating Temperature Range	-10 °C ~ 50 °C*, 0 °C ~ 40 °C (1C)
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	60 A
Max. Charging/Discharging Power	3000 W
Phase	Single-Phase
Nominal AC Output Voltage	230 V
Grid Voltage Range	180 ~ 270 V
Rated Frequency	50 / 60 Hz
Backup	UPS
Grid Regulation	AS 4777.2, VDE-AR-N 4105, G98-1, G100, TOR D4, CEI 0-21
Safety	IEC 62040-1, IEC 62477-1
Battery Technical Specification	
Module Capacity	2.9 kWh
Usable Capacity	2.8 kWh
Depth of Discharge (DoD)	96%
Module Nominal Voltage	51.2 V
Max. Short-circuit Current	200 A
Cycle Life	10 000 **
Max. Charging/Discharging Current	56 A (1C)
External Battery Expansion	1 ~ 5 M4856-P in parallel
BESS Model	SMILE-B3+M4856-Px1 / SMILE-B3+M4856-Px2 / SMILE-B3+M4856-Px3 / SMILE-B3+M4856-Px4 / SMILE-B3+M4856-Px5
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.

** Under specific test conditions



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
 Level 15, SIPC 158 Wangdun Road SIP Suzhou, 215028

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
 Suite 1, Level 1, 530 Botany Road, 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