



# SMILE-B3



Model	SMILE-B3
<b>System Specification</b>	
Max. AC Output Power	3000 W
Max. AC Input Power	3000 W
IP Protection	IP65 (Outdoor) / IP21 (Indoor)
Dimension (W x D x H)	610 x 219 x 650 mm
Weight	50 kg
Operating Temperature Range	-10 °C ~ 50 °C*
Warranty	5 Year Product Warranty, 10 Year Battery Warranty
<b>Inverter Technical Specification</b>	
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, RD 1699, TOR Erzeuger Typ A, CEI 0-21, EN50549
Safety	IEC 62040-1, IEC 62477-1
<b>Battery Technical Specification</b>	
Module Capacity	2.9 kWh
Usable Capacity	2.8 kWh
Depth of Discharge (DoD)	96%
Module Nominal Voltage	51.2 V
Cycle Life	10 000 **
Max. Charging/Discharging Current	56 A
External Battery Expansion	1 ~ 5 M4856-P 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.

\*\* Under specific test conditions



#### 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, Jiangsu Province, China

#### Alpha ESS Europe GmbH

+49 610 3459 1601  
 europe@alpha-ess.de  
 www.alphaess.de  
 Paul-Ehrlich-Straße 1a, Langen, Hessen D-63225 Germany

#### Alpha ESS Australia Pty. Ltd.

+61 02 9000 7676  
 Australia@alpha-ess.com  
 www.alphaess.com  
 8/15-21 Gibbes Street, Chatswood, NSW 2067 Australia

#### Alpha ESS International Pte. Ltd.

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

#### Alpha ESS Italy S.r.l.

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

#### Alpha ESS UK Ltd.

+44 145 354 5222  
 info@alpha-ess.com  
 Drake house, Long street, Dursley, gl11 4hh UK

#### Alpha ESS USA, Inc.

+1 408 368 7828  
 usa@alpha-ess.com  
 Unit 5.2180 S Ivanhoe St, Denver, CO 80222 USA

#### Alpha ESS Korea Co., Ltd.

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