



**YOUR
SMART
ENERGY**



BATTERY
SMILE-BAT-5PH
RESIDENTIAL SERIES

CAPACITY
5 kWh modular



Modular

Plug & Play

Safe

Long Lifespan

BATTERY SMILE-BAT-5PH



Model	SMILE-BAT-5PH
Physical	
Battery Type	LFP (LiFePO4)
Weight	50 kg
Dimension (W x D x H)	580 x 183 x 530 mm
IP Protection	IP21 (Indoor) / IP65 (Outdoor)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	5.0 kWh
Usable Capacity	4.8 kWh
Depth of Discharge (DoD)	95%
Nominal Voltage	153.6 V
Operating Voltage Range	144 ~ 172.8 V
Cycle Life	10 000*
Operation	
Max. Charging Current	32 A
Max. Discharging Current	32 A
Operating Temperature Range	-10 °C ~ 50 °C**
Humidity	0 ~ 95%
BMS	
Modules Connection	1 ~ 6 in parallel
Capacity	5.0 / 10.0 / 15.0 / 20.0 / 25.0 / 30.0 kWh
Usable Capacity	4.8 / 9.5 / 14.3 / 19.0 / 23.8 / 28.5 kWh
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature
Communication	CAN and RS-485 compatible
Certification	
Transportation	UN38.3
Safety	IEC 62619, IEC 62040 / IEC 62477(Pack)

*Under specific test conditions

** When the temperature is below 0 °C or above 40 °C, the performance will 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, Jiangsu Province, China

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, 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.

+61 402 500 520
 Australia@alpha-ess.com
 www.alphaess.com
 8/15-21 Gibbes Street, Chatswood, NSW 2067 Australia

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 International Pte. Ltd.

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

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