

• YOUR
• SMART
• ENERGY



BATTERY **SMILE-G3-BAT-3.8S**

RESIDENTIAL SERIES

CAPACITY
3.8 kWh Modular



Redundancy Design
High Efficiency and Safe
Simple Installation and Maintenance
Bypass Function

BATTERY

SMILE-G3-BAT-3.8S



Model	SMILE-G3-BAT-3.8S
Physical Parameters	
Battery Type	LFP (LiFePO4)
Installation Method	Floor / Wall-Mounted
Dimension (W x D x H)	610 x 212.5 x 435 mm
Weight	39.2 kg
IP Protection	IP21
Warranty	10 Year Battery Performance Warranty
Electrical Parameters	
Energy Capacity	3.8 kWh
Usable Capacity	3.6 kWh
Depth of Discharge (DoD)	95%*
Cycle Life	10 000**
Nominal Voltage	96 V
Operating Voltage Range	90 ~ 108 V
Operating Parameters	
Max. Charging Current	40 A
Max. Discharging Current	40 A***
Operating Temperature Range	-10 °C ~ 50 °C****
Relative Humidity	0 ~ 95% (No Condensation)
BMS	
Modules Connection	1 ~ 6 in series connection
Capacity	3.8 / 7.7 / 11.5 / 15.3 / 19.2 / 23.0 kWh
Usable Capacity	3.6 / 7.3 / 10.9 / 14.6 / 18.2 / 21.9 kWh
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Communication	CAN
Certification	
Transportation	UN38.3
Safety	IEC 62619

* Test Condition: Max. 0.5C charge & discharge at 25±2 °C

** Under specific test conditions

*** 50A discharging current sustainable for 30 minutes in off-grid operation

**** Max. charge/discharge current derating may occur with changes in temperature and SOC.



Alpha ESS Co., Ltd.

☎ +86 513 8060 6891
✉ info@alpha-ess.com
🌐 www.alphaess.com
📍 Jiahua 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 Gibbs 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 0330 043 2610
✉ 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