

YOUR
SMART
ENERGY



BATTERY SMILE-G3-BAT-4.5S

RESIDENTIAL SERIES

CAPACITY

4.5 kWh Modular



KEY FEATURES

Redundancy Design

High Efficiency and Safe

Simple Installation and Maintenance

Bypass Function

BATTERY

SMILE-G3-BAT-4.5S



Model	SMILE-G3-BAT-4.5S
Physical Parameters	
Battery Type	LFP (LiFePO4)
Installation Method	Wall Mounted / Base Installation (Optional)
Dimension (W x D x H) ± 2	610 x 212.5 x 435 mm
Weight ± 1	53 kg
IP Protection	IP65
Warranty	10 Year Battery Performance Warranty
Electrical Parameters	
Rated Capacity	4.56 kWh
Depth of Discharge (DoD)	100%
Nominal Voltage	96 V
Operating Voltage Range	90 ~ 105.6 V
Operating Parameters	
Max. Charging Current	50 A
Max. Discharging Current	50 A
Operating Temperature Range	-20°C~50°C(Charge / Discharge)
Safety	Aerosol, explosion-proof valve
Relative Humidity	0 ~ 95% (No Condensation)
BMS	
Module Compatibility	G3-S3.6/S5/B5(1~4), G3-T4/5/6/8/10(1~6), G3-T12/15/20(2~6)
Rated Capacity (1~6 in series)	4.56 / 9.12 / 13.68 / 18.24 / 22.80 / 27.36 kWh
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Communication	CAN
Certification	
Transportation	UN38.3
Compliance	IEC 62619, IEC 62040, IEC 61000



Alpha ESS Co., Ltd.

☎ +86 513 8060 6891
✉ info@alpha-ess.com
🌐 www.alphaess.com
📍 No.1086, Bihua Road, Nantong Hi-Tech Zone, Jiangsu Province, China

Alpha ESS Europe GmbH

☎ +49 6196 7863485
✉ europe@alpha-ess.de
🌐 www.alphaess.de
📍 Horizon Tower 17.OG Alfred-Herrhausen-Allee 3-5 65760 Eschborn, Germany

Alpha ESS Australia Pty. Ltd.

☎ +61 02 9000 7676
✉ techsupport@alphaess.au
🌐 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 0330 043 2610
✉ 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

ALPHA ESS SOUTH AFRICA (PTY) LTD

✉ measervice@alpha-ess.com
📍 La Rocca Office Park, Block B1 321 Main Road, Bryanston, Johannesburg, 2191