

• YOUR
• SMART
• ENERGY



BATTERY SMILE-BAT-5.8P

RESIDENTIAL SERIES

CAPACITY ►

5.8 kWh modular



Modular

Plug & play

Safe

Long lifespan



BATTERY SMILE-BAT-5.8P



Model	SMILE-BAT-5.8P
Physical	
Battery Type	LFP (LiFePO4)
Cell Manufacturer	HIGEE
System Weight	69 kg
Dimension (W x D x H)	610 × 207 × 629 mm
IP Protection	IP21 (Indoor)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	5.8 kWh
Usable Capacity	5.2 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	48 V
Operating Voltage Range	45 ~ 54 V
Internal Resistance	≤15 mΩ
Cycle Life	10 000*
Operation	
Max. Charging Current	56 A
Max. Discharging Current	56 A
Operating Temperature Range	-10 °C ~ 50 °C**
Relative Humidity	15% ~ 85%
BMS	
Modules Connection	1 ~ 6 in parallel
Capacity	5.8 / 11.5 / 17.3 / 23.0 / 28.8 / 34.6 kWh
Usable Capacity	5.2 / 10.4 / 15.6 / 20.7 / 25.9 / 31.3 kWh
Communication	CAN and RS-485 compatible
Certification	IEC 62619 (Cell), ANSI/UL 1973 (Cell)

*Under specific test conditions

**When the temperature is below 0 °C or above 40 °C, the performance will be limited.



Headquarter: Alpha ESS Co., Ltd.

☎ +86 513 8060 6891
✉ info@alpha-ess.com
🌐 www.alpha-ess.com
📍 Jinhua 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
📍 Building 10-A, Canal Town Industrial Park, 99 Taihu E Rd, Wuzhong District, Suzhou 215000

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