

• YOUR
• SMART
• ENERGY



BATTERY SMILE-BAT-10.3P

RESIDENTIAL SERIES

CAPACITY ►

10,3 kWh modular



Modular

Plug & play

Safe

Long lifespan



BATTERY SMILE-BAT-10.3P



Model	SMILE-BAT-10.3P
Physical	
Battery Type	LFP (LiFePO4)
Cell Manufacturer	LISHEN
System Weight	95 kg
Dimension (W x D x H)	610 x 236 x 727 mm
IP Protection	IP65 (outdoor)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	10.3 kWh
Usable Capacity	9.3 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	51.2 V
Operating Voltage Range	48 ~ 57.6 V
Internal Resistance	≤ 30 mΩ
Cycle Life	8000
Operation	
Max. Charging Current	100 A (0.5C)
Max. Discharging Current	100 A (0.5C)
Max. Short-circuit Current	200 A
Operating Temperature Range	-10 °C ~ 50 °C*
Humidity	15% ~ 85%
BMS	
Modules Connection	1 ~ 6 in parallel
Capacity	10.3 / 20.7 / 31.0 / 41.4 / 51.7 / 62.1 kWh
Usable Capacity	9.3 / 18.6 / 27.9 / 37.2 / 46.5 / 55.8 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 (Cell), IEC 62619 (Pack)

* 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
 📍 Jiuhua 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
 📍 Level 15, SIPC 158 Wangdun Road SIP Suzhou, 215028

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