

YOUR  
SMART  
ENERGY



# BATTERY SMILE-BAT-10.1P

RESIDENTIAL SERIES  
CAPACITY ▶  
10.1 kWh modular




Modular  
Plug & play  
Safe  
Long lifespan



# BATTERY SMILE-BAT-10.1P



Model	SMILE-BAT-10.1P
<b>Physical</b>	
Battery Type	LFP (LiFePO4)
Cell Manufacturer	 EVE ENERGY VERY ENDURE
System Weight	92 kg
Dimension (W x D x H)	610 x 236 x 693 mm
IP Protection	IP21 (Indoor) / IP65 (outdoor)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
<b>Electrical</b>	
Energy Capacity	10.1 kWh
Usable Capacity	9.1 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	48 V
Operating Voltage Range	45 ~ 54 V
Internal Resistance	≤ 30 mΩ
Cycle Life	8000
<b>Operation</b>	
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%
<b>BMS</b>	
Modules Connection	1 ~ 6 in parallel
Capacity	10.1 / 20.2 / 30.2 / 40.3 / 50.4 / 60.5 kWh
Usable Capacity	9.1 / 18.1 / 27.2 / 36.3 / 45.4 / 54.4 kWh
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature
Communication	CAN and RS-485 compatible
<b>Certification</b>	
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, SIP C 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