YOUR
SMART
ENERGY

Alphaess

BATTERY

# SMILE-BAT-5P

RESIDENTIAL SERIES

## CAPACITY

5.04 kWh Module



- **Modular**
- **Plug & Play**
- **Safe**
- **Long Lifespan**

# BATTERY
# SMILE-BAT-5P

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| Model | SMILE-BAT-5P |
|---|---|
| **Physical** | |
| Battery Type | LFP ($LiFePO_4$) |
| Weight | 48 kg |
| Dimensions (W x D x H) | 640 x 250 x 345 mm |
| IP Protection | IP65 (Outdoor) |
| Warranty | 10 Years Battery Performance Warranty |
| **Electrical** | |
| Energy Capacity | 5.04 kWh |
| Usable Capacity | 4.788 kWh |
| Depth of Discharge (DoD) | 95%* |
| Nominal Voltage | 48 V |
| Operating Voltage Range | 45 ~ 54 V |
| Cycle Life | 6000** |
| **Operation** | |
| Max. Charging Current | 60 A |
| Max. Discharging Current | 60 A |
| Operating Temperature Range | -10 °C ~ 50 °C*** |
| Relative Humidity | 0 ~ 95% (No Condensation) |
| **BMS** | |
| Modules Connection | 1 ~ 6 SMILE-BAT-5P in parallel |
| Energy Capacity | 5.0 / 10.1 / 15.1 / 20.2 / 25.2 / 30.2 kWh |
| Usable Capacity | 4.8 / 9.6 / 14.4 / 19.2 / 23.9 / 28.7 kWh |
| Monitoring Parameters | System voltage, current, cell voltage, cell temperature, PCBA temperature |
| Communication | CAN and RS-485 compatible |
| **Certification** | |
| Transportation | UN 38.3 |
| Safety | IEC 62619 (Cell), IEC 62619 (Pack) |

* Test condition: Max. 0.5C charge/discharge at 25±2℃.
** Under specific test conditions.
*** Max. charge/discharge current derating may occur with changes in temperature and SoC.

CE IEC


Alpha ESS Co., Ltd.
☎ +86 513 8060 6891
✉ info@alpha-ess.com
e www.alphaess.com
⌂ Jiuhua Road 888, Nantong High-Tech Industrial Development Zone, Nantong, Jiangsu Province, China

Alpha ESS Europe GmbH
☎ +49 610 3459 1601
✉ europe@alpha-ess.de
e www.alphaess.de
⌂ Paul-Ehrlich-Straße 1a,Langen, Hessen D-63225 Germany

Alpha ESS Australia Pty. Ltd.
☎ +61 02 9000 7676
✉ Australia@alpha-ess.com
e 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
e 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


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