

BC55RPB

Outdoor battery cabinet with an IP54 protection level, inbuilt lithium-ion batteries, and the BMS.

Features



Flexible modular design



Self-developed 3-level BMS



Remote monitoring and upgrade



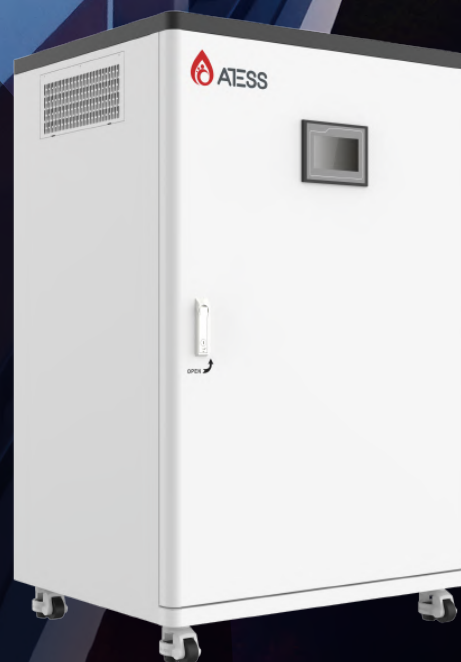
Long cycle Life, 6000 cycles
Note: At specific test condition.



Cell balancing method optional



Max 1C discharge



BC55RPB

Battery module specification

| | |
|------------------------|-----------------|
| Configuration | 16S1P |
| Rated capacity | 100Ah |
| Rated energy | 5.12kWh |
| Rated voltage | 51.2V |
| Voltage range | 44.8-58.4V |
| Rated charge/discharge | 0.5C |
| Max. charge/discharge | 1C |
| AC internal resistance | ≤8mΩ |
| Dimension (W/H/D) | 446.5/165/655mm |
| Weight | 44kg |

Battery rack specification

| Configuration | 6 battery modules +1 BPU | 7 battery modules +1 BPU | 8 battery modules +1 BPU | 9 battery modules +1 BPU | 10 battery modules +1 BPU | 11 battery modules +1 BPU |
|------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| Rated capacity | 100Ah | 100Ah | 100Ah | 100Ah | 100Ah | 100Ah |
| Rated energy | 30.72kWh | 35.84kWh | 40.96kWh | 46.8kWh | 51.2kWh | 56.3kWh |
| Rated voltage | 307.2V | 358.4V | 409.6V | 468V | 512V | 563V |
| Voltage range | 268.8V-345.6V | 313.6V-403.2V | 358.4V-460.8V | 403.2V-518.4V | 448V-576V | 492.8V-642.4V |
| Rated charge/discharge | 0.5C | 0.5C | 0.5C | 0.5C | 0.5C | 0.5C |
| Max. charge/discharge | 1C | 1C | 1C | 1C | 1C | 1C |
| AC internal resistance | ≤48mΩ | ≤56mΩ | ≤64mΩ | ≤72mΩ | ≤80mΩ | ≤88mΩ |
| Display | 7"Touch screen | 7"Touch screen | 7"Touch screen | 7"Touch screen | 7"Touch screen | 7"Touch screen |
| BMS | Included | Included | Included | Included | Included | Included |
| Communication | CAN | CAN | CAN | CAN | CAN | CAN |
| Monitoring | RS485 | RS485 | RS485 | RS485 | RS485 | RS485 |
| Max. altitude | 3000m | 3000m | 3000m | 3000m | 3000m | 3000m |
| Dimension (W/H/D) | 1052/1627/850mm | 1052/1627/850mm | 1052/1627/850mm | 1052/1627/850mm | 1052/1627/850mm | 1052/1627/850mm |
| Weight | 474kg | 518kg | 562kg | 606kg | 650kg | 694kg |
| Protection degree | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 |

Balancing methods

| | |
|------------------------|-----|
| Passive cell balancing | Yes |
| Active cell balancing | Opt |

BMS parameters on LCD

| | |
|------------------------------|-----|
| Cell voltag | Yes |
| Cell high voltage | Yes |
| Battery SOC | Yes |
| Cell temperature | Yes |
| Charge and discharge current | Yes |
| Cell low voltage | Yes |
| Total battery voltage | Yes |
| Fault warning | Yes |

Protection

| | |
|-------------------------------|-----|
| Short circuit protection | Yes |
| Over current protection | Yes |
| Over charge protection | Yes |
| Over temperature protection | Yes |
| Cell over voltage protection | Yes |
| Cell under voltage protection | Yes |
| Over discharge protection | Yes |

Certificate

CE, UL, UN38.3, IEC62619, MSDS, ROHS, CB

*Note: Active balancing is under development.