

ATESS BC75/100 ATESS BR75/100/138/145



LEADING - EDGE TECHNOLOGY

Overview

Outdoor battery cabinet with IP54 protection level, indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

Features



Easy installation and maintenance

Local and remote management, standard rack & module design, front maintenance



High density

LFP high-capacity Li-Ion battery with aluminum shell, over 130wh/kg



Safety first

Self-developed 3-level BMS, complex protection, safe and reliable



Long lifespan

Long cycle life, 6000 cycles *

Note: at specific test condition

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Datasheet

ATESS BC75 **ATESS BR75** ATESS BC100 **ATESS BR100** ATESS BR138 **ATESS BR145**

Battery module specification

| | | | | |
|--------------------------|-------------|-------------|-------------|-------------|
| Configuration | 12S2P | 12S2P | 12S2P | 12S2P |
| Rated capacity | 200Ah | 200Ah | 200Ah | 200Ah |
| Rated energy | 7.68kWh | 7.68kWh | 7.68kWh | 7.68kWh |
| Rated voltage | 38.4V | 38.4V | 38.4V | 38.4V |
| Voltage range | 33.6-43.8V | 33.6-43.8V | 33.6-43.8V | 33.6-43.8V |
| Nominal charge/discharge | 0.5C | 0.5C | 0.5C | 0.5C |
| Max charge/discharge | 1C | 1C | 1C | 1C |
| AC internal resistance | ≤10mΩ | ≤10mΩ | ≤10mΩ | ≤10mΩ |
| Dimension (W/H/D)mm | 360/300/515 | 360/300/515 | 360/300/515 | 360/300/515 |
| Weight | ≤65kg | ≤65kg | ≤65kg | ≤65kg |

Battery cabinet/rack specification

| | | | | | | | | |
|--------------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|--|---------------------------|--|
| Configuration | 10 battery modules +1 BPU | | 14 battery modules +1 BPU | | 18 battery modules +1 BPU | | 19 battery modules +1 BPU | |
| Rated capacity | 200Ah | | 200Ah | | 200Ah | | 200Ah | |
| Rated energy | 76.8kWh | | 107.52kWh | | 138.24kWh | | 145.92kWh | |
| Rated voltage | 384V | | 537.6V | | 691.2V | | 729.6V | |
| Voltage range | 336V-438V | | 470.4V-613.2V | | 604.8V-766.8V | | 638.4V-832.2V | |
| Nominal charge/discharge | 0.5C | | 0.5C | | 0.5C | | 0.5C | |
| Max charge/discharge | 1C | | 1C | | 1C | | 1C | |
| AC internal resistance | ≤100mΩ | | ≤140mΩ | | ≤180mΩ | | ≤190mΩ | |
| Display | 7"Touch screen | | 7"Touch screen | | 7"Touch screen | | 7"Touch screen | |
| BMS | Included | | Included | | Included | | Included | |
| Communication | RS485/CAN | | RS485/CAN | | RS485/CAN | | RS485/CAN | |
| Dimension (W/H/D)mm | 1310/2150/850 | 1119/1548/586 | 1310/2150/950 | 1119/1888/586 | 1486/1888/586 | | 1486/1888/586 | |
| Weight | ≤1060kg | ≤780kg | ≤1340kg | ≤1050kg | ≤1710kg | | ≤1775kg | |
| Protection degree | IP54 | IP20 | IP54 | IP20 | IP20 | | IP20 | |

BMS parameters on LCD

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

Protection

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

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