

BR128R/144R/160R/176R

Indoor battery rack with IP20 protection level, inbuilt lithium-ion battery and BMS.

Features



Flexible modular design



Self-developed 3-level BMS



Easy connection method for A&B Module



Remote monitoring and upgrade



Long cycle Life, 6000 cycles



High density, 179wh/kg

Note: At specific test condition.



| | BR128R | BR144R | BR160R | BR176R |
|-------------------------------------|---------------|---------------|---------------|---------------|
| Battery module specification | | | | |
| Configuration | 16S1P | 16S1P | 16S1P | 16S1P |
| Rated capacity | 314Ah | 314Ah | 314Ah | 314Ah |
| Rated energy | 16.076kWh | 16.076kWh | 16.076kWh | 16.076kWh |
| Rated voltage | 51.2V | 51.2V | 51.2V | 51.2V |
| Voltage range | 44.8~57.6V | 44.8~57.6V | 44.8~57.6V | 44.8~57.6V |
| Rated charge/discharge | 0.5C | 0.5C | 0.5C | 0.5C |
| Max. charge/discharge | 0.65C | 0.65C | 0.65C | 0.65C |
| AC internal resistance | ≤7mΩ | ≤7mΩ | ≤7mΩ | ≤7mΩ |
| Dimension(W/H/D) | 523/231/800mm | 523/231/800mm | 523/231/800mm | 523/231/800mm |
| Weight | 115kg | 115kg | 115kg | 115kg |

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|-----------------------------------|---------------------|---------------------|---------------------|---------------------|
| Battery rack specification | | | | |
| Configuration | 8 modules + 1 BPU | 9 modules + 1 BPU | 10 modules + 1 BPU | 11 modules + 1 BPU |
| Rated capacity | 314Ah | 314Ah | 314Ah | 314Ah |
| Rated energy | 128.608kWh | 144.684kWh | 160.76kWh | 176.834kWh |
| Rated voltage | 409.6V | 460.8V | 512V | 563.2V |
| Voltage range | 358.4~460.8V | 403.2~518.4V | 448~576V | 492.8~633.6V |
| Rated charge/discharge | 0.5C | 0.5C | 0.5C | 0.5C |
| Max. charge/discharge | 0.65C | 0.65C | 0.65C | 0.65C |
| AC internal resistance | ≤56mΩ | ≤63mΩ | ≤70mΩ | ≤77mΩ |
| Display | 7" Touch screen | 7" Touch screen | 7" Touch screen | 7" Touch screen |
| BMS | Included | Included | Included | Included |
| Communication | CAN | CAN | CAN | CAN |
| Monitoring | RS485 | RS485 | RS485 | RS485 |
| Max. altitude | 3000m | 3000m | 3000m | 3000m |
| Dimension(W/H/D)mm | 1055/1615/755(0.5C) | 1055/1615/755(0.5C) | 1055/1615/755(0.5C) | 1055/1615/755(0.5C) |
| Weight | 1080kg | 1195kg | 1310kg | 1425kg |
| Protection degree | IP20 | IP20 | IP20 | IP20 |

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|------------------------------|-----|-----|-----|-----|
| BMS parameters on LCD | | | | |
| Cell voltage | Yes | Yes | Yes | Yes |
| Cell hight voltage | Yes | Yes | Yes | Yes |
| Cell low voltage | Yes | Yes | Yes | Yes |
| Cell temperature | Yes | Yes | Yes | Yes |
| Charge and dichage 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 |

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|--------------------------------|--|--|--|--|
| Certificate | | | | |
| CB, UL, UN38.3, IEC62619, ROHS | | | | |