



# RB170



Voltage: 12.8V | Capacity: 170 Ah | Energy: 2176 Wh

LITHIUM IRON PHOSPHATE BATTERY **LiFePO4**

## ELECTRICAL SPECIFICATIONS

|                           |                  |
|---------------------------|------------------|
| Nominal Voltage           | 12.8 V           |
| Nominal Capacity          | 170 Ah           |
| Capacity @ 25A            | 408 min          |
| Resistance                | ≤55 mΩ @ 50% SOC |
| Efficiency                | 99%              |
| Self Discharge            | <3% per Month    |
| Maximum Modules in Series | 1 (Single Use)   |

## DISCHARGE SPECIFICATIONS

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Maximum Continuous Discharge Current | 200 A                           |
| Peak Discharge Current               | 250 A (≤5 s)                    |
| BMS Discharge Current Cut-Off        | 480 A (±50 A) (6 ±3 ms)         |
| Recommended Low Voltage Disconnect   | 11 V                            |
| BMS Discharge Voltage Cut-Off        | 8 V (2.0 ±0.1 vpc) (100 ±50 ms) |
| Reconnect Voltage                    | 10 V (2.5 ±0.1 vpc)             |
| Short Circuit Protection             | 400-800 μs                      |

## TEMPERATURE SPECIFICATIONS

|                              |                             |
|------------------------------|-----------------------------|
| Discharge Temperature        | -4 to 140 °F (-20 to 60 °C) |
| Charge Temperature*          | -4 to 113 °F (-20 to 45 °C) |
| Storage Temperature          | 23 to 95 °F (-5 to 35 °C)   |
| BMS High Temperature Cut-Off | 149 °F (65 °C)              |
| Reconnect Temperature        | 122 °F (50 °C)              |

\*Refer to charge currents below 32°F (0°C)

## MECHANICAL SPECIFICATIONS

|                        |  |
|------------------------|--|
| Dimensions (L x W x H) | 19.5 x 10.6 x 7.9"<br>495 x 268 x 201.5 mm |
| Weight                 | 66.1 lbs (30 kg)                           |
| Terminal Type          | M8 x 1.25 x 12mm                           |
| Terminal Torque        | 80 - 100 in-lbs (9 - 11 N-m)               |
| Case Material          | Steel Case                                 |
| Enclosure Protection   | IP66                                       |
| Cell Type - Chemistry  | Cylindrical - LiFePO <sub>4</sub>          |

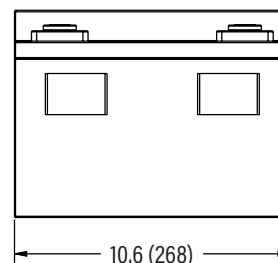
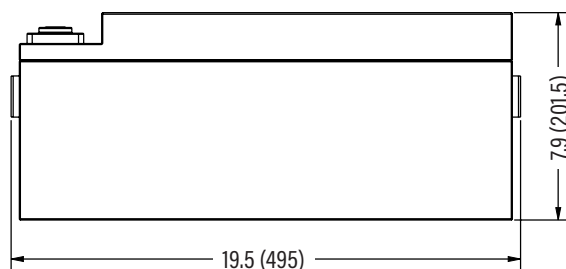
## CHARGE SPECIFICATIONS

|  |                                   |
|--|-----------------------------------|
| Recommended Charge Current                 | 8.5 A - 50 A                      |
| Maximum Charge Current                     | 100 A                             |
| Charge Current 14 to 32 °F (-10 to 0 °C)   | ≤0.1 C                            |
| Charge Current -4 to 14 °F (-20 to -10 °C) | ≤0.05 C                           |
| Recommended Charge Voltage                 | 14.2 V - 14.6 V                   |
| BMS Charge Voltage Cut-Off                 | 15.2 V (3.8 ±0.05 vpc) (1 ±0.5 s) |
| Reconnect Voltage                          | 14.4 V (3.6 ±0.025 vpc)           |
| Balancing Voltage                          | 14.4 V (3.6 ±0.025 vpc)           |

## COMPLIANCE SPECIFICATIONS

|                         |   |
|-------------------------|---|
| Certifications          | UN38.3 & CE (battery)<br>UL1642 (File# MH64523) (cells)<br>IEC62133 (cells) |
| Shipping Classification | UN 3480, CLASS 9  |

## DIMENSIONAL SPECIFICATIONS





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IEEE/UL Battery  
Sizing by  
**MooreU**  
610-952-6067  
www.mooreu.com

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## PERFORMANCE CHARACTERISTICS

