



# RB24V200

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

Voltage: 25.6V | Capacity: 200 Ah | Energy: 5120 Wh

LITHIUM IRON PHOSPHATE BATTERY **LiFePO4**

| ELECTRICAL SPECIFICATIONS |                  |
|---------------------------|------------------|
| Nominal Voltage           | 25.6 V           |
| Nominal Capacity          | 200 Ah           |
| Capacity @ 25A            | 480 min          |
| Resistance                | ≤35 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 (7.5 s ± 2.5 s)              |
| BMS Discharge Current Cut-Off        | 575 A ±60 A (12.5 ± 7.5 ms)        |
| Recommended Low Voltage Disconnect   | 22 V                               |
| BMS Discharge Voltage Cut-Off        | 18.4 V (2.3 ±0.1 vpc) (100 ±50 ms) |
| Reconnect Voltage                    | 20 V (2.5 ±0.1 vpc)                |
| Short Circuit Protection             | 200-600 μs                         |

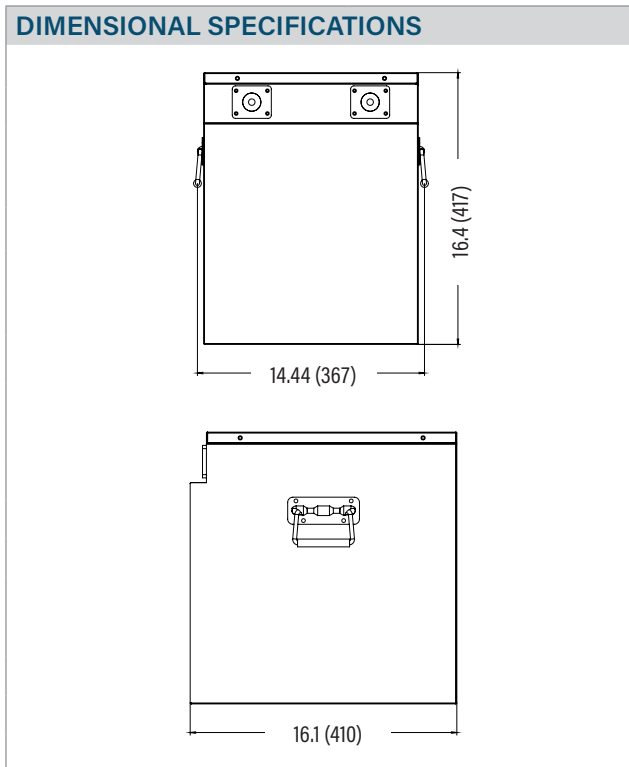
| TEMPERATURE SPECIFICATIONS   |                             |
|------------------------------|-----------------------------|
| Discharge Temperature        | -4 to 140 °F (-20 to 60 °C) |
| Charge Temperature*          | -4 to 113 °F (-20 to 45 °C) |
| Storage Temperature          | 23 to 95 °F (-5 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)    | 16.1 x 14.44 x 16.4"<br>410 x 367 x 417 mm |
| Weight                    | 110.2 lbs (50 kg)                          |
| Terminal Type             | M10 x 1.5                                  |
| Terminal Torque           | 110 - 125 in-lbs (12.2 - 14 N-m)           |
| Case Material             | Steel Case                                 |
| Enclosure Protection      | IP65                                       |
| Cell Type - Chemistry     | Cylindrical - LiFePO4                      |

| CHARGE SPECIFICATIONS                      |                                     |
|--|-------------------------------------|
| Recommended Charge Current                 | 10 A - 100 A                        |
| Maximum Charge Current                     | 200 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                 | 28.4 V - 29.2 V                     |
| BMS Charge Voltage Cut-Off                 | 30.8 V (3.85 ±0.05 vpc) (1 ±0.05 s) |
| Reconnect Voltage                          | 29.2 V (3.65 ±0.05 vpc)             |
| Balancing Voltage                          | 28.8 V (3.6 ±0.025 vpc)             |

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





# RB24V200

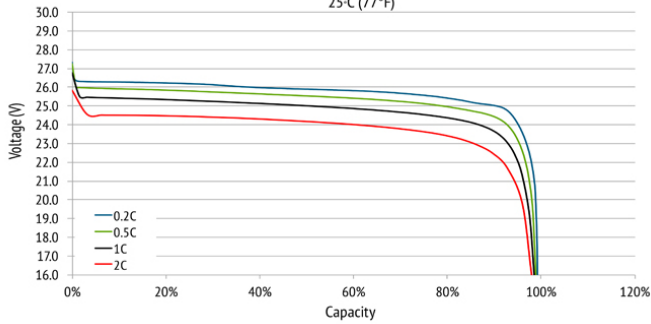
IEEE/UL Battery  
Sizing by  
**MooreU**  
610-952-6067  
www.mooreu.com

Voltage: 25.6V | Capacity: 200 Ah | Energy: 5120 Wh

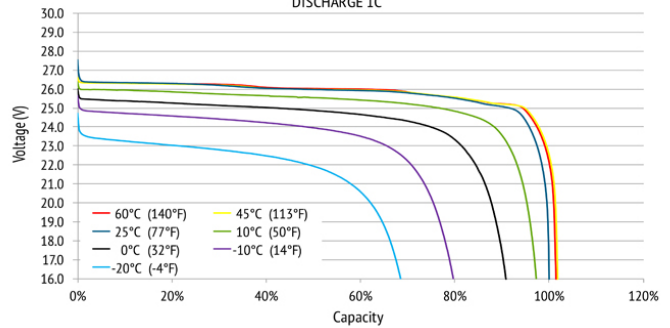
LITHIUM IRON PHOSPHATE BATTERY **LiFePO4**

## PERFORMANCE CHARACTERISTICS

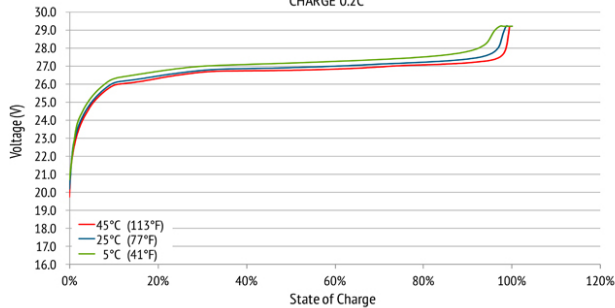
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES  
25°C (77°F)



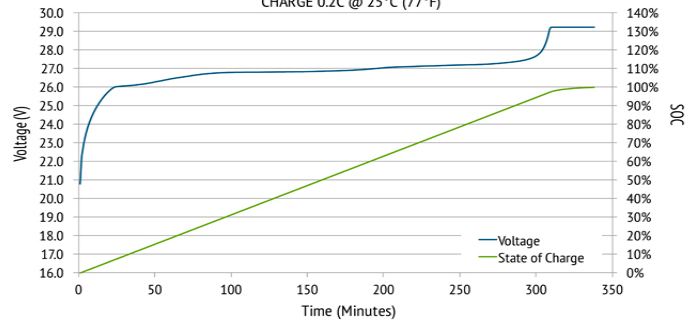
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES  
DISCHARGE 1C



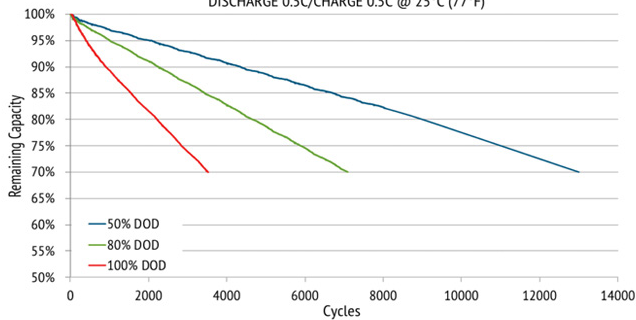
CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES  
CHARGE 0.2C



CHARGE VOLTAGE and STATE OF CHARGE (SOC)  
CHARGE 0.2C @ 25°C (77°F)



CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD)  
DISCHARGE 0.5C/CHARGE 0.5C @ 25°C (77°F)



CAPACITY of RELiON LiFePO4 vs. LEAD ACID  
at VARIOUS RATES OF DISCHARGE

