

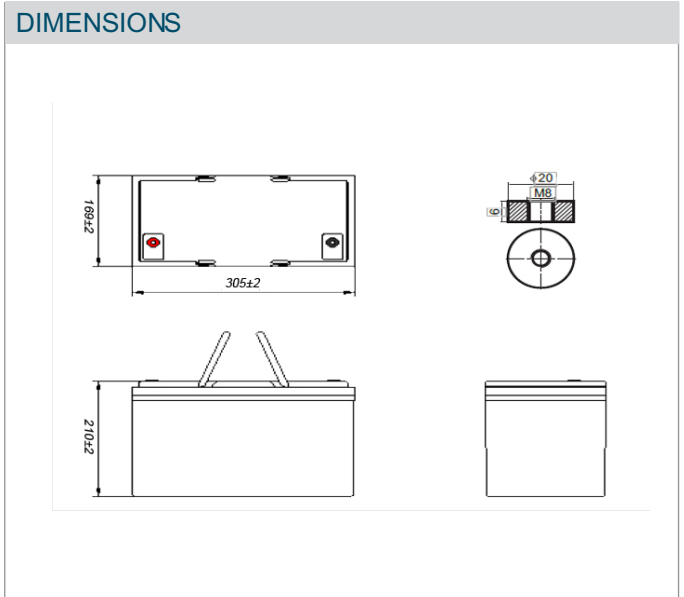
Lithium Iron Phosphate Battery

| ELECTRICAL CHARACTERISTICS | |
|--------------------------------|---------------|
| Nominal Voltage | 12.8 V |
| Nominal Capacity | 100 Ah |
| Capacity @ 25A | 240 min |
| Internal Resistance (AC) | 10 mΩ |
| Cycle Life @1C 100%DOD | >3000 cycles |
| Efficiency of Charge @ 0.5C | 100% |
| Efficiency of discharge @ 0.5C | 96~ 99% @0.5C |
| Self Discharge | <3% per Month |

| MECHANICAL SPECIFICATIONS | |
|----------------------------|--------------------------------|
| Dimensions (L x W x H /TH) | 307 x 169 x 208mm |
| Approx. Weight | 11.2kgs |
| Terminal Type | M8 |
| Terminal Torque | 80 - 100 in-lbs (9 - 11 N-m) |
| Case Material | ABS |
| Enclosure Protection | IP66 |
| Cell Type - Chemistry | quadrate - LiFePO ₄ |

| CHARGE CHARACTERISTICS | |
|---|-------------------------|
| Recommended Charge Current (0.5C) | 50 A |
| Maximum Charge Current (1C) | 100 A |
| Charge Current (14 to 32 °F or -10 to 0 °C) | ≤0.1 C |
| Charge Current (-4 to 14 °F or -20 to -10 °C) | ≤0.05 C |
| Recommended Charge Voltage | 14.0 V - 14.6 V |
| BMS Charge Voltage Cut-Off | 15.6 V (3.9 ±0.025 vpc) |
| Charge Mode @ 0.2C to 29.2V | Charge current to 0.02C |
| Reconnect Voltage | 15.2 V (3.8 ±0.05 vpc) |
| Balancing Voltage | 14.4 V (3.6 vpc) |

| DISCHARGE CHARACTERISTICS | |
|--------------------------------------|-----------------------------|
| Maximum Continuous Discharge Current | 100 A |
| Peak Discharge Current | 400 A (7.5 s ±2.5 s) |
| BMS Discharge Current Cut-Off | 450A±15 A (9 ms) |
| Recommended Low Voltage Disconnect | 11 V |
| BMS Discharge Voltage Cut-Off | 8 V (2.0 ±0.08 vpc) |
| Reconnect Voltage | 9.2 V (2.0 ±0.08 vpc) |
| Short Circuit Protection | 200-600 μs |



| TEMPERATURE | |
|------------------------------|-----------------------------|
| 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 | 167 °F (75 °C) |
| Reconnect Temperature | 149 °F (65 °C) |

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

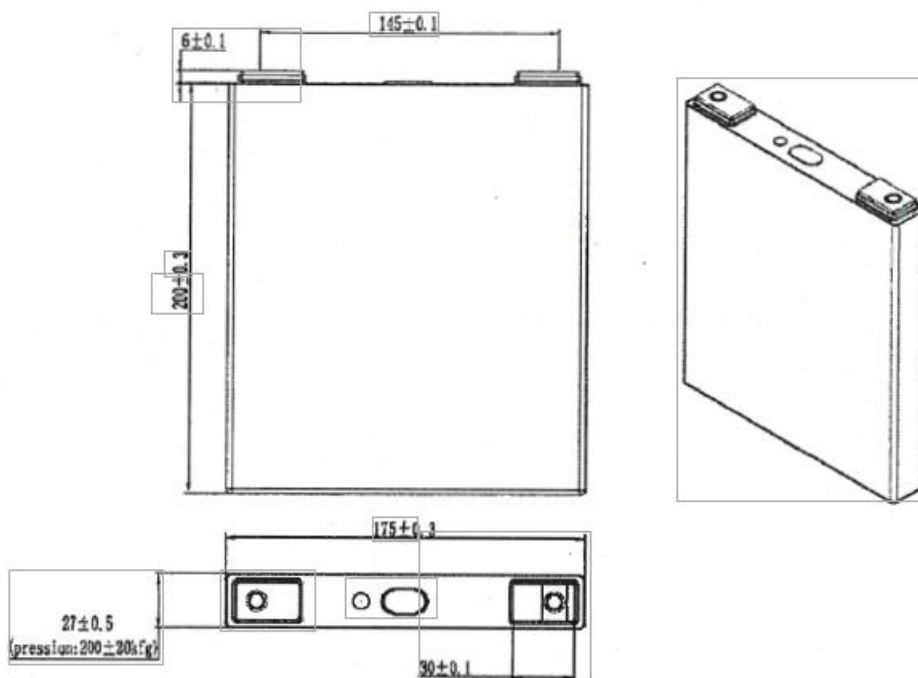
| COMPLIANCE | |
|-------------------------|---|
| Certifications | UN38.3 (battery) CE (battery) UL1642 & IEC62133 (cells) |
| Shipping Classification | UN 3480, CLASS 9 |

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CELL SPECIFICATIONS

| ITEM | SPECIFICATION | |
|---------------------|---|---------|
| Rated capacity | 105 | Ah@0.5C |
| Internal resistance | ≤1.5 mΩ(50%SOC) | |
| Normal voltage | 3.20 | V |
| Cell dimensions | (27 ± 0.5)mm*(175 ± 0.3)mm* (200 ± 0.3)mm | |

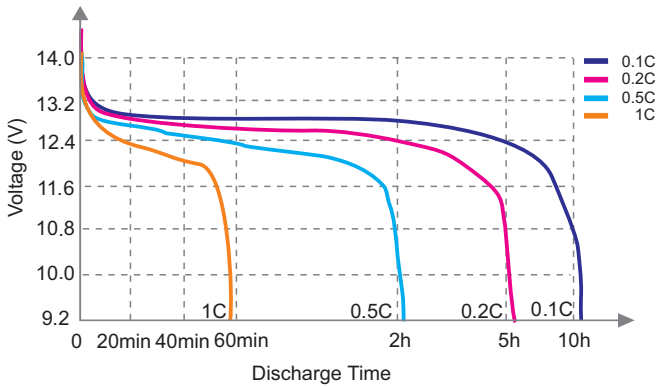
CELL DIAGRAMS



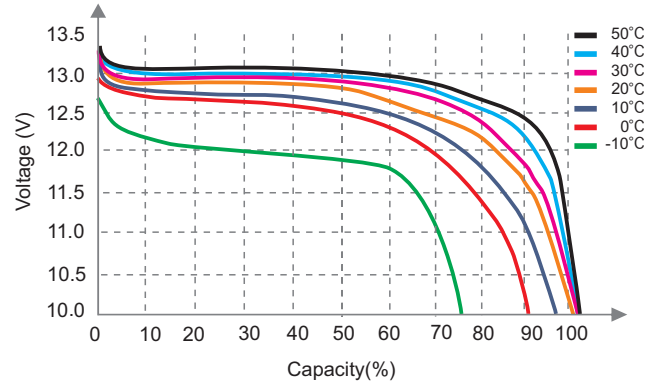


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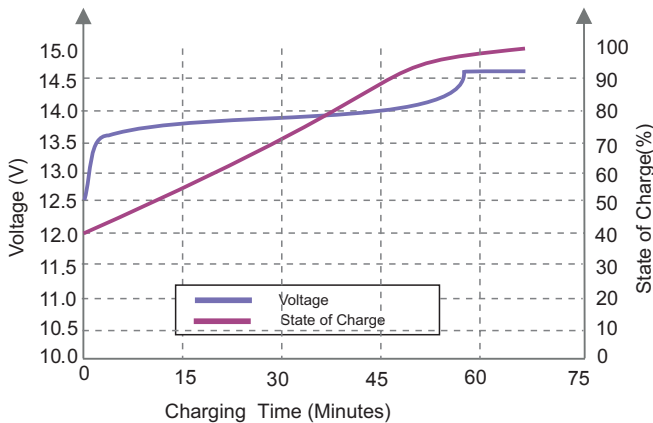
Different Rate Discharge Curve (25°C)



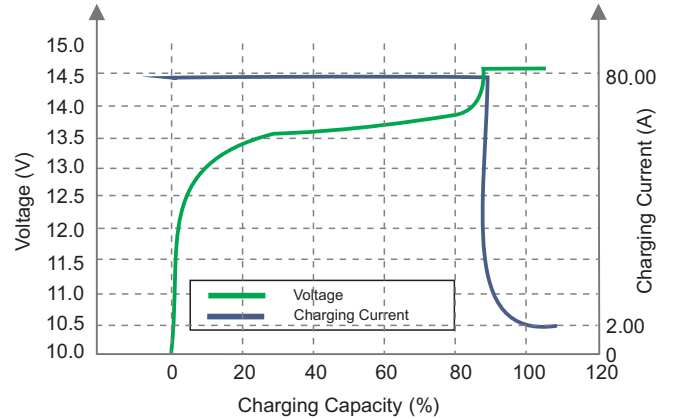
Different Temperature Discharge Curve (40A, 25°C)



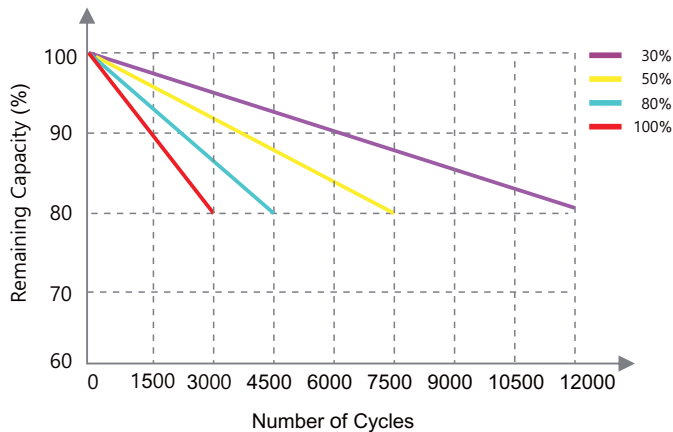
State of Charge Curve (40A, 25°C)



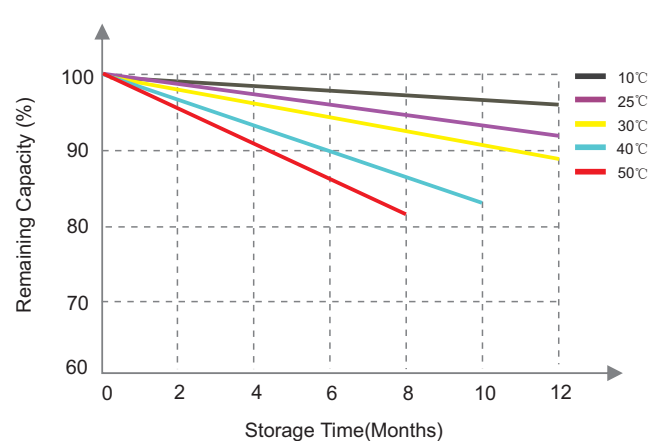
Charging Characteristics (40A, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



more cycles you can get