

JM12-55

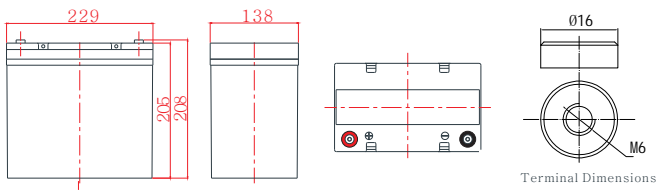


General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life



Dimension: 229(L)×138(W)×205(H)×208(TH) Unit: mm



JM Series lead-acid battery

Applications

- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

Specification

| | |
|------------------------|--|
| Nominal Voltage | 12V |
| Nominal Capacity | 55Ah |
| Design life | 10 years |
| Terminal | M6 |
| Approx. Weight | Approx 17.5kg (38.5lbs) |
| Container Material | ABS |
| Rated Capacity | 55.0Ah ➤ 10Hour Rate (5.50A to 10.8V) |
| | 45.0Ah ➤ 3Hour Rate (15.0A to 10.2V) |
| | 37.0Ah ➤ 1Hour Rate (37.0A to 9.6V) |
| Internal resistance | Full charged at 25°C: 8.6 mΩ |
| Max. Discharge Current | 660A(5S) Discharge: -20 ~50°C(-4~ 122°F) |
| Operating Temperature | Charge: -20 ~50°C(-4~ 122°F) |
| | Storage: -20 ~50°C(-4~ 122°F) |
| | Charge current: Max. 13.8A ; Recom.5.5A |
| Charge Method (25 °C) | Float Charge: 13.5-13.8V, recom. 13.8V(-18mV/ °C) |
| | Equalize charge: 13.8-14.1V, recom. 14.1V(-24mV/ °C) |
| | Cycle charge: 14.4-15.0V, recom. 14.7V(-30mV/ °C) |
| Self discharge | 3% of capacity declined per month at 25°C |

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

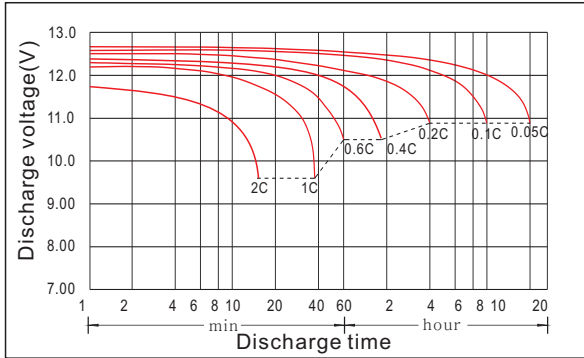
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 194 | 129 | 104 | 63.3 | 45.4 | 37.0 | 23.3 | 21.2 | 15.4 | 11.2 | 10.3 | 8.25 | 6.79 | 5.72 | 3.00 |
| 1.65V | 188 | 128 | 101 | 62.3 | 45.1 | 36.8 | 23.1 | 21.1 | 15.3 | 11.1 | 10.2 | 8.17 | 6.74 | 5.67 | 2.99 |
| 1.70V | 180 | 127 | 98.8 | 61.2 | 44.8 | 36.5 | 22.8 | 21.0 | 15.0 | 10.9 | 10.1 | 8.09 | 6.68 | 5.61 | 2.97 |
| 1.75V | 166 | 125 | 95.6 | 60.6 | 44.2 | 36.0 | 22.6 | 20.6 | 14.9 | 10.8 | 10.0 | 8.02 | 6.63 | 5.56 | 2.96 |
| 1.80V | 149 | 122 | 89.1 | 58.0 | 43.1 | 35.1 | 22.4 | 20.3 | 14.8 | 10.7 | 9.76 | 7.93 | 6.58 | 5.50 | 2.94 |
| 1.85V | 133 | 113 | 79.4 | 52.9 | 39.9 | 32.5 | 21.7 | 19.2 | 13.9 | 10.4 | 9.27 | 7.70 | 6.30 | 5.34 | 2.89 |

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

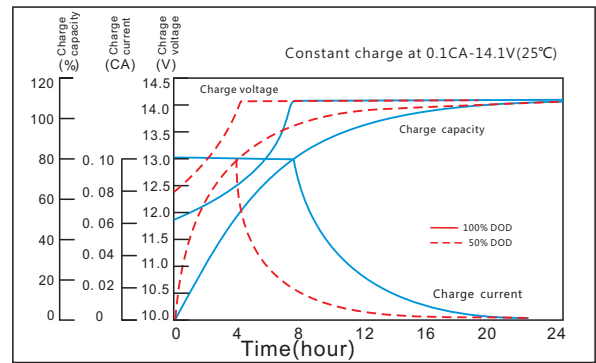
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 325 | 218 | 183 | 115 | 84.0 | 70.0 | 46.4 | 40.2 | 29.3 | 22.0 | 19.6 | 16.1 | 13.2 | 11.0 | 5.94 |
| 1.65V | 313 | 217 | 180 | 114 | 83.4 | 69.5 | 46.0 | 40.0 | 28.9 | 21.8 | 19.5 | 16.0 | 13.1 | 10.9 | 5.91 |
| 1.70V | 311 | 215 | 178 | 114 | 82.7 | 68.9 | 45.6 | 39.9 | 28.8 | 21.6 | 19.4 | 15.8 | 13.0 | 10.8 | 5.89 |
| 1.75V | 290 | 213 | 177 | 113 | 82.1 | 68.4 | 45.2 | 39.7 | 28.6 | 21.4 | 19.2 | 15.7 | 12.9 | 10.7 | 5.86 |
| 1.80V | 266 | 212 | 167 | 110 | 81.5 | 67.9 | 44.7 | 39.6 | 28.5 | 21.2 | 19.0 | 15.5 | 12.8 | 10.6 | 5.83 |
| 1.85V | 238 | 197 | 150 | 101 | 75.6 | 63.0 | 43.9 | 37.8 | 27.1 | 20.8 | 18.2 | 15.3 | 12.4 | 10.4 | 5.78 |

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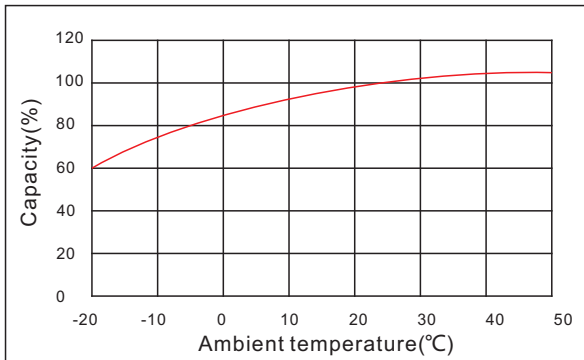
Discharge characteristic



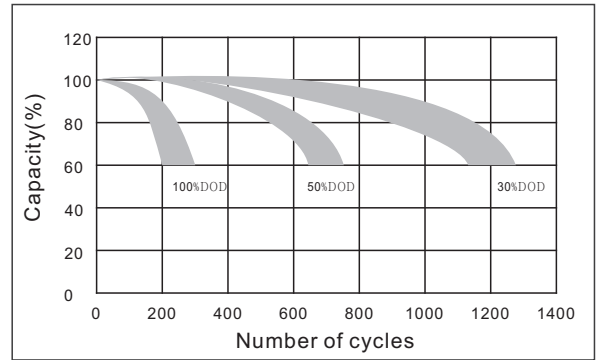
Charging characteristic



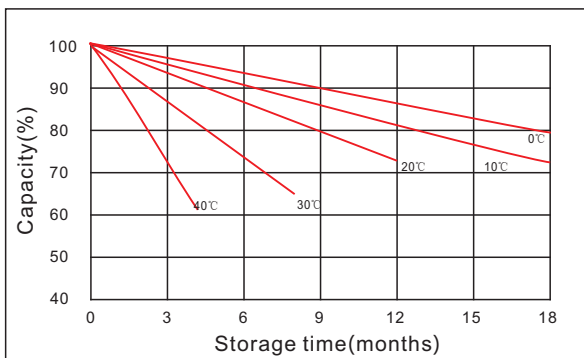
The effect of temperature on capacity



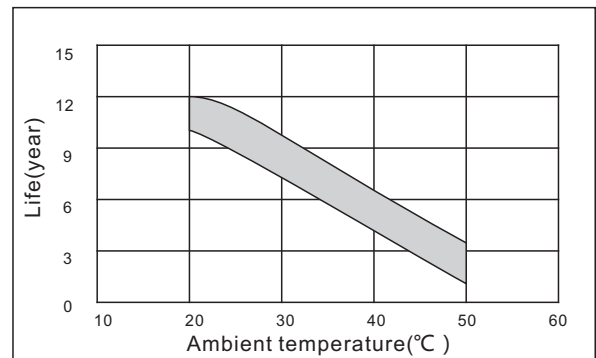
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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