

JM12-150

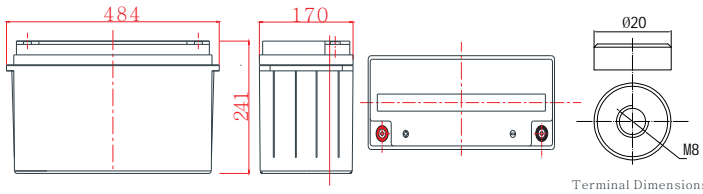


General Features

- > 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: 484(L)×170(W)×241(H)×241(TH) Unit: mm



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 | 150Ah |
| Design life | 10 years |
| Terminal | M8 |
| Approx. Weight | Approx 45.0kg (99.2lbs) |
| Container Material | ABS |
| Rated Capacity | 150Ah → 10Hour Rate (15.0A to 10.8V) |
| | 123Ah → 3Hour Rate (41.0A to 10.2V) |
| | 101Ah → 1Hour Rate (101A to 9.6V) |
| Internal resistance | Full charged at 25°C: 5.0 mΩ |
| Max. Discharge Current | 1800A(5S) |
| Operating Temperature | Discharge: -20 ~50°C(-4~ 122°F) |
| | Charge: -20 ~50°C(-4~ 122°F) |
| | Storage: -20 ~50°C(-4~ 122°F) |
| Charge current: | Max. 37.5A ; Recom.15A |
| 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)

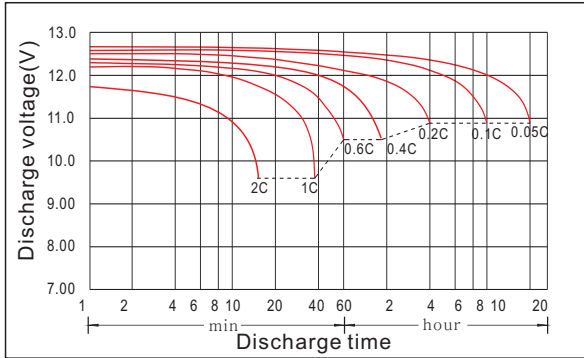
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 529 | 351 | 284 | 173 | 124 | 101 | 63.4 | 57.9 | 42.0 | 30.4 | 28.2 | 22.5 | 18.5 | 15.6 | 8.19 |
| 1.65V | 519 | 348 | 275 | 170 | 123 | 100 | 63.0 | 57.6 | 41.6 | 30.2 | 27.9 | 22.3 | 18.4 | 15.5 | 8.15 |
| 1.70V | 492 | 348 | 269 | 167 | 123 | 100 | 62.2 | 57.2 | 41.0 | 29.8 | 27.6 | 22.1 | 18.2 | 15.3 | 8.10 |
| 1.75V | 452 | 342 | 261 | 165 | 120 | 98.2 | 61.8 | 56.3 | 40.6 | 29.6 | 27.3 | 21.9 | 18.1 | 15.2 | 8.07 |
| 1.80V | 406 | 333 | 243 | 158 | 117 | 95.7 | 61.0 | 55.3 | 40.3 | 29.3 | 26.6 | 21.6 | 17.9 | 15.0 | 8.03 |
| 1.85V | 362 | 308 | 217 | 144 | 109 | 88.6 | 59.4 | 52.5 | 37.9 | 28.5 | 25.3 | 21.0 | 17.2 | 14.6 | 7.89 |

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

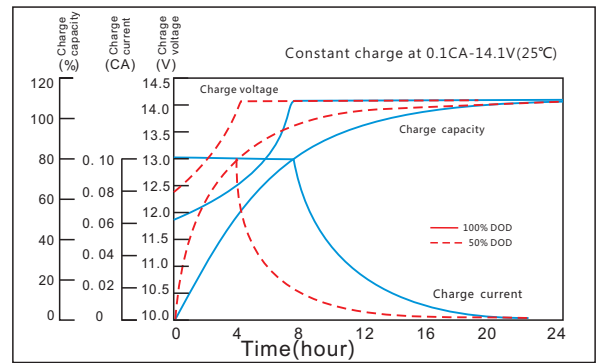
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|-----|------|-----|------|------|------|------|------|------|------|
| 1.60V | 886 | 596 | 500 | 313 | 229 | 191 | 127 | 110 | 80.0 | 60.0 | 53.5 | 44.0 | 36.0 | 30.0 | 16.2 |
| 1.65V | 852 | 590 | 491 | 310 | 227 | 189 | 125 | 109 | 78.9 | 59.4 | 53.2 | 43.6 | 35.7 | 29.7 | 16.1 |
| 1.70V | 848 | 587 | 486 | 310 | 226 | 188 | 124 | 109 | 78.5 | 58.8 | 52.8 | 43.1 | 35.6 | 29.4 | 16.1 |
| 1.75V | 791 | 583 | 483 | 308 | 224 | 187 | 123 | 108 | 78.1 | 58.2 | 52.5 | 42.7 | 35.3 | 29.1 | 16.0 |
| 1.80V | 726 | 577 | 456 | 301 | 222 | 185 | 122 | 108 | 77.8 | 57.6 | 51.9 | 42.2 | 35.0 | 28.8 | 15.9 |
| 1.85V | 648 | 537 | 408 | 276 | 206 | 172 | 120 | 103 | 73.9 | 56.8 | 49.5 | 41.7 | 33.8 | 28.4 | 15.8 |

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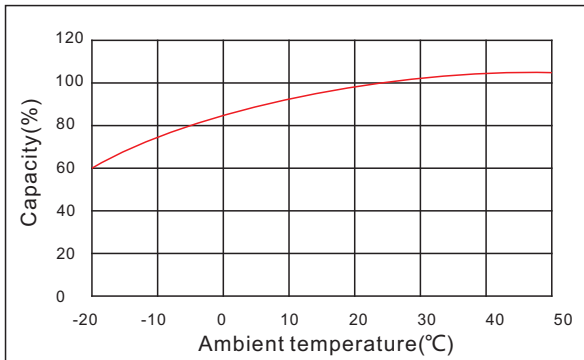
Discharge characteristic



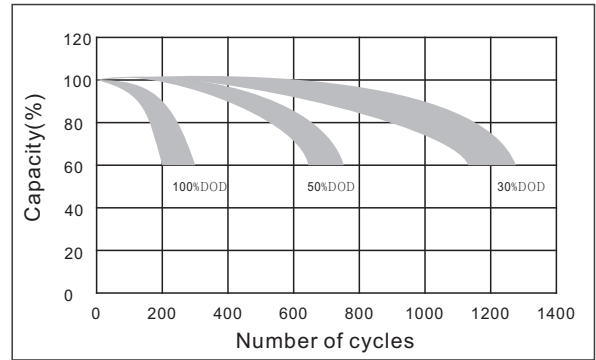
Charging characteristic



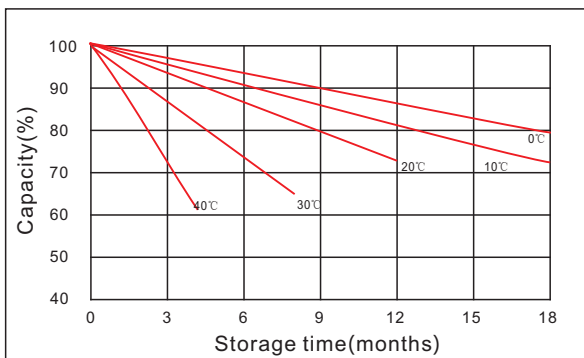
The effect of temperature on capacity



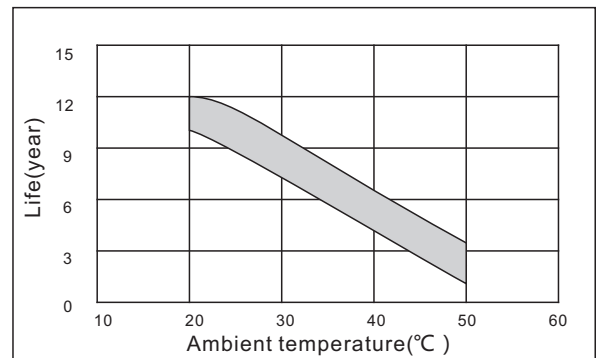
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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