

JM12-95

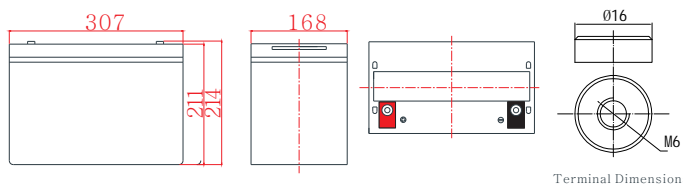


General Features

- > 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: 307(L) × 168(W) × 211(H) × 214(TH) Unit: mm



Terminal Dimensions

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 | 95Ah |
| Design life | 10 years |
| Terminal | M6 |
| Approx. Weight | Approx 28.0kg (61.7lbs) |
| Container Material | ABS |
| Rated Capacity | 95.0Ah → 10Hour Rate (9.50A to 10.8V) |
| | 78.0Ah → 3Hour Rate (26.0A to 10.2V) |
| | 64.0Ah → 1Hour Rate (64.0A to 9.6V) |
| Internal resistance | Full charged at 25°C: 5.5 mΩ |
| Max. Discharge Current | 1140A(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.23.75A ; Recom.9.50A |
| 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)

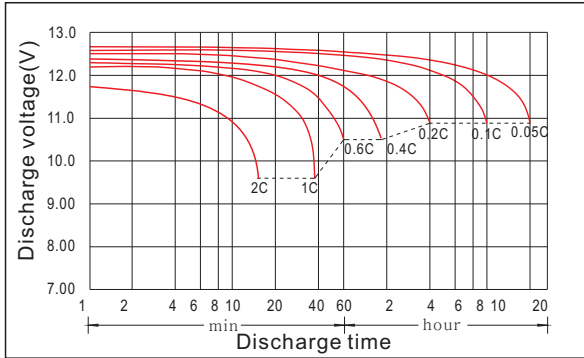
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 335 | 223 | 179 | 110 | 78.5 | 64.0 | 40.2 | 36.7 | 26.6 | 19.3 | 17.8 | 14.2 | 11.7 | 9.88 | 5.18 |
| 1.65V | 324 | 221 | 174 | 108 | 77.9 | 63.5 | 39.8 | 36.5 | 26.4 | 19.1 | 17.7 | 14.1 | 11.6 | 9.79 | 5.16 |
| 1.70V | 311 | 220 | 171 | 106 | 77.4 | 63.1 | 39.4 | 36.2 | 26.0 | 18.9 | 17.5 | 14.0 | 11.5 | 9.69 | 5.13 |
| 1.75V | 286 | 216 | 165 | 105 | 76.3 | 62.2 | 39.0 | 35.7 | 25.7 | 18.7 | 17.3 | 13.8 | 11.4 | 9.60 | 5.11 |
| 1.80V | 257 | 211 | 154 | 100 | 74.3 | 60.6 | 38.6 | 35.0 | 25.5 | 18.5 | 16.9 | 13.7 | 11.4 | 9.50 | 5.09 |
| 1.85V | 229 | 195 | 137 | 91.4 | 68.9 | 56.2 | 37.5 | 33.3 | 24.1 | 18.0 | 16.0 | 13.3 | 10.9 | 9.22 | 4.99 |

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

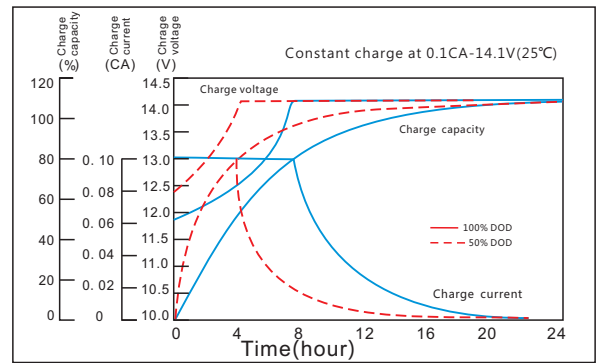
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|
| 1.60V | 562 | 379 | 317 | 198 | 146 | 121 | 80.2 | 69.4 | 50.7 | 38.0 | 33.9 | 27.9 | 22.8 | 19.0 | 10.3 |
| 1.65V | 539 | 375 | 311 | 196 | 144 | 120 | 79.3 | 69.1 | 50.0 | 37.6 | 33.7 | 27.6 | 22.6 | 18.8 | 10.2 |
| 1.70V | 537 | 372 | 307 | 196 | 143 | 119 | 78.4 | 68.9 | 49.7 | 37.2 | 33.5 | 27.2 | 22.5 | 18.6 | 10.2 |
| 1.75V | 500 | 369 | 306 | 195 | 142 | 118 | 78.0 | 68.5 | 49.4 | 36.9 | 33.3 | 27.1 | 22.4 | 18.5 | 10.1 |
| 1.80V | 460 | 366 | 289 | 190 | 141 | 117 | 77.1 | 68.3 | 49.3 | 36.5 | 32.8 | 26.8 | 22.2 | 18.3 | 10.1 |
| 1.85V | 411 | 339 | 259 | 174 | 130 | 109 | 75.7 | 65.2 | 46.9 | 35.9 | 31.4 | 26.3 | 21.4 | 17.9 | 10.0 |

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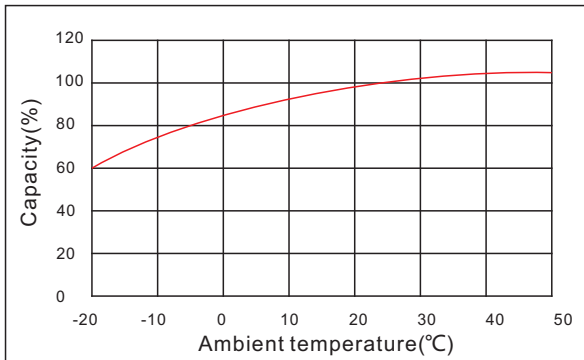
Discharge characteristic



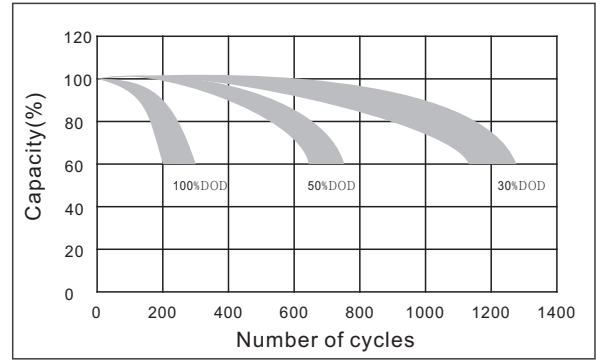
Charging characteristic



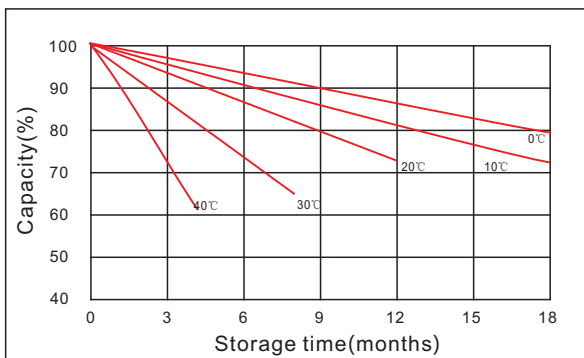
The effect of temperature on capacity



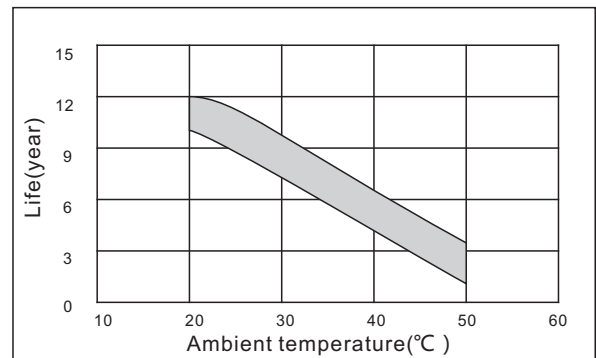
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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