

JM12-85

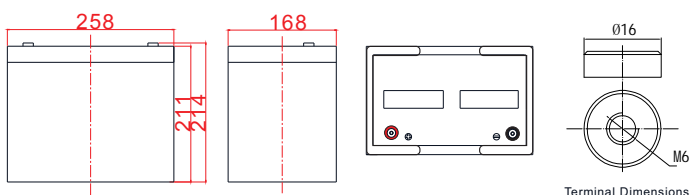


General Features

- > 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: 258(L) × 168(W) × 211(H) × 214(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 | 85Ah |
| Design life | 10 years |
| Terminal | M6 |
| Approx. Weight | Approx 26.0kg (57.32lbs) |
| Container Material | ABS |
| Rated Capacity | 85.0Ah → 10Hour Rate (8.50A to 10.8V) |
| | 69.9Ah → 3Hour Rate (23.3A to 10.2V) |
| | 57.3Ah → 1Hour Rate (57.3A to 9.6V) |
| Internal resistance | Full charged at 25°C: 6.3 mΩ |
| Max. Discharge Current | 1020A(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. 21.3A; Recom. 8.5A |
| 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)

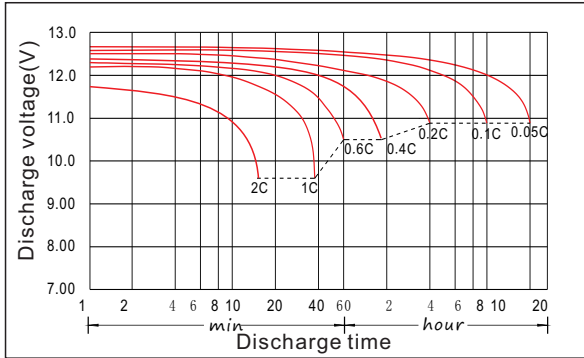
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 300 | 199 | 160 | 97.9 | 70.3 | 57.3 | 35.9 | 32.8 | 23.8 | 17.2 | 16.0 | 12.7 | 10.5 | 8.84 | 4.64 |
| 1.65V | 290 | 198 | 156 | 96.3 | 69.7 | 56.8 | 35.6 | 32.6 | 23.6 | 17.1 | 15.8 | 12.6 | 10.4 | 8.76 | 4.61 |
| 1.70V | 278 | 197 | 153 | 94.6 | 69.3 | 56.5 | 35.3 | 32.4 | 23.3 | 16.9 | 15.6 | 12.5 | 10.3 | 8.67 | 4.59 |
| 1.75V | 256 | 194 | 148 | 93.7 | 68.3 | 55.7 | 34.9 | 31.9 | 23.0 | 16.8 | 15.5 | 12.4 | 10.2 | 8.59 | 4.57 |
| 1.80V | 230 | 189 | 138 | 89.7 | 66.5 | 54.2 | 34.6 | 31.3 | 22.8 | 16.6 | 15.1 | 12.3 | 10.2 | 8.50 | 4.55 |
| 1.85V | 205 | 175 | 123 | 81.8 | 61.7 | 50.3 | 33.6 | 29.8 | 21.5 | 16.1 | 14.3 | 11.9 | 9.74 | 8.25 | 4.47 |

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

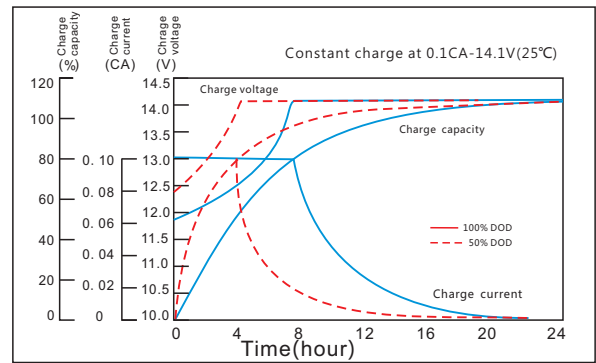
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 503 | 337 | 284 | 177 | 130 | 108 | 71.7 | 62.1 | 45.3 | 34.0 | 30.3 | 24.9 | 20.4 | 17.0 | 9.18 |
| 1.65V | 483 | 334 | 278 | 175 | 128 | 107 | 70.9 | 61.9 | 44.7 | 33.6 | 30.2 | 24.6 | 20.2 | 16.8 | 9.14 |
| 1.70V | 480 | 331 | 275 | 175 | 127 | 106 | 70.5 | 61.6 | 44.5 | 33.4 | 29.9 | 24.5 | 20.2 | 16.7 | 9.10 |
| 1.75V | 448 | 331 | 273 | 174 | 127 | 106 | 69.6 | 61.3 | 44.2 | 33.0 | 29.8 | 24.2 | 20.0 | 16.5 | 9.05 |
| 1.80V | 411 | 328 | 258 | 170 | 126 | 105 | 69.2 | 61.1 | 44.1 | 32.8 | 29.4 | 24.1 | 19.9 | 16.4 | 9.01 |
| 1.85V | 368 | 304 | 231 | 156 | 117 | 97.3 | 67.5 | 58.4 | 41.9 | 32.0 | 28.1 | 23.5 | 19.1 | 16.0 | 8.93 |

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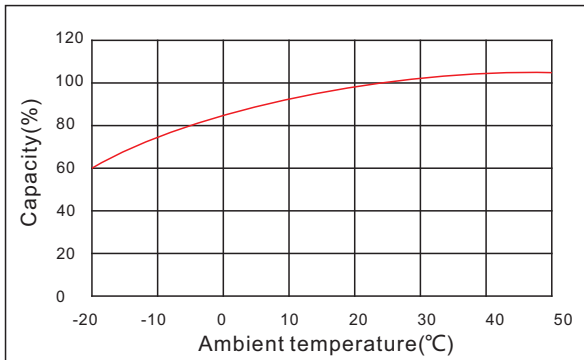
Discharge characteristic



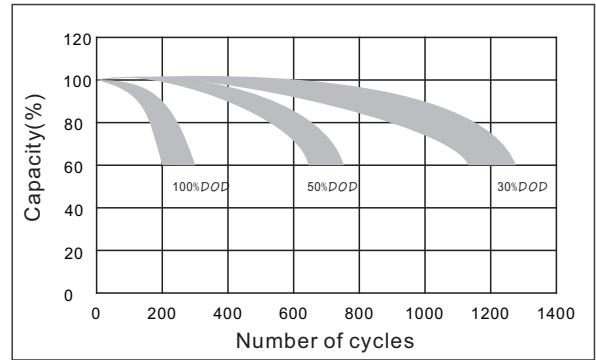
Charging characteristic



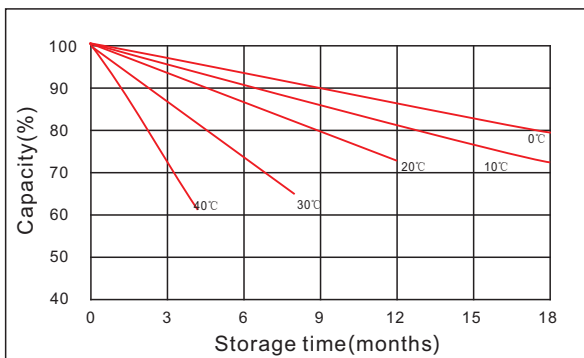
The effect of temperature on capacity



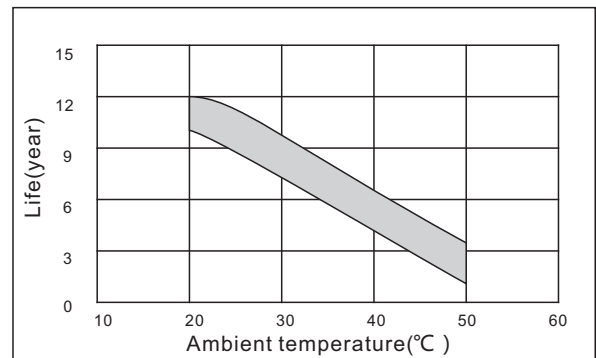
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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