

JDG12-70

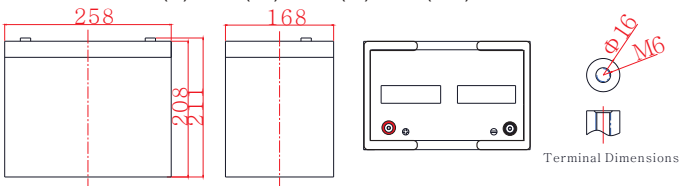


General Features

- › Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- › Relatively rich electrolyte, high temperature and low temperature performance is superior
- › Long cycle life, excellent deep cycle discharge ability
- › Excellent charge acceptance ability
- › Precision sealing technology
- › Long life



Dimension: 258(L) × 168(W) × 208(H) × 211(TH) Unit: mm



Applications

- › Solar / wind energy and other new energy storage
- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting, Auto control system
- › Other general purpose

Specification

| | |
|------------------------|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 70Ah |
| Design life | 12 years |
| Terminal | M6 |
| Approx. Weight | Approx 21.8kg (48.1lbs) |
| Container Material | ABS |
| Rated Capacity | 70.0Ah → 10Hour Rate (7.00A to 10.8V) |
| | 55.2Ah → 3Hour Rate (18.4A to 10.8V) |
| | 44.9Ah → 1Hour Rate (44.9A to 10.5V) |
| Internal resistance | Full charged at 25°C: 8.0 mΩ |
| Max. Discharge Current | 840A(5S) |
| Operating Temperature | Discharge: -40 ~60°C (-40~ 140°F) |
| | Charge: -20 ~50°C (-4~ 122°F) |
| | Storage: -20 ~50°C (-4~ 122°F) |
| Charge current: | Max. 17.5A ; Recom.7.0A |
| 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)

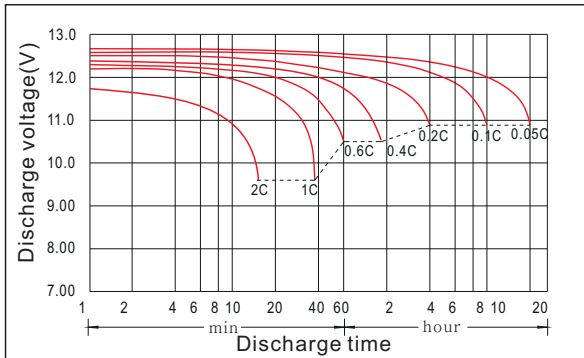
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 129 | 78.2 | 46.2 | 26.5 | 19.2 | 12.9 | 8.47 | 7.24 | 3.81 |
| 1.65V | 125 | 76.9 | 45.9 | 26.4 | 19.0 | 12.8 | 8.40 | 7.17 | 3.79 |
| 1.70V | 122 | 75.5 | 45.6 | 26.2 | 18.8 | 12.6 | 8.34 | 7.10 | 3.77 |
| 1.75V | 118 | 74.9 | 44.9 | 25.7 | 18.6 | 12.5 | 8.27 | 7.03 | 3.76 |
| 1.80V | 110 | 71.6 | 43.8 | 25.3 | 18.4 | 12.2 | 8.20 | 7.00 | 3.74 |
| 1.85V | 98.1 | 65.3 | 40.5 | 24.0 | 17.3 | 11.6 | 7.86 | 6.76 | 3.67 |

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

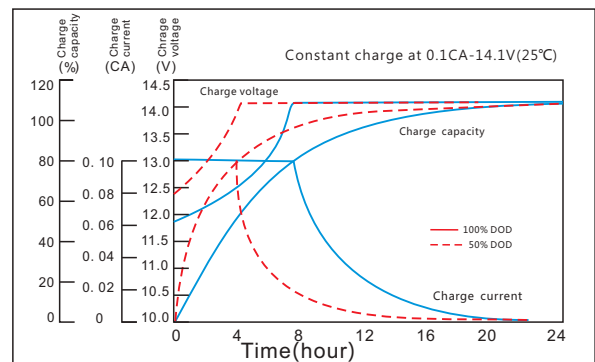
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 226 | 141 | 87.3 | 50.1 | 36.6 | 24.5 | 16.5 | 13.9 | 7.54 |
| 1.65V | 222 | 140 | 86.7 | 50.0 | 36.1 | 24.3 | 16.3 | 13.8 | 7.51 |
| 1.70V | 220 | 140 | 86.0 | 49.7 | 35.9 | 24.1 | 16.3 | 13.7 | 7.48 |
| 1.75V | 218 | 139 | 85.3 | 49.5 | 35.7 | 24.0 | 16.1 | 13.5 | 7.44 |
| 1.80V | 207 | 136 | 84.6 | 49.3 | 35.6 | 23.7 | 16.0 | 13.4 | 7.41 |
| 1.85V | 185 | 125 | 78.6 | 47.1 | 33.8 | 22.7 | 15.5 | 13.2 | 7.34 |

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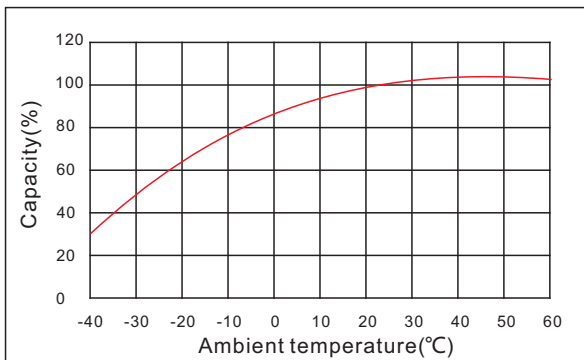
Discharge characteristic



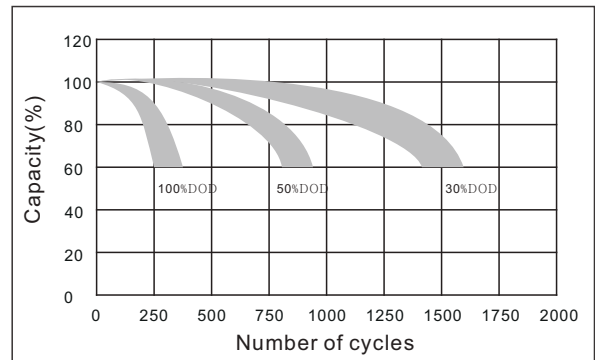
Charging characteristic



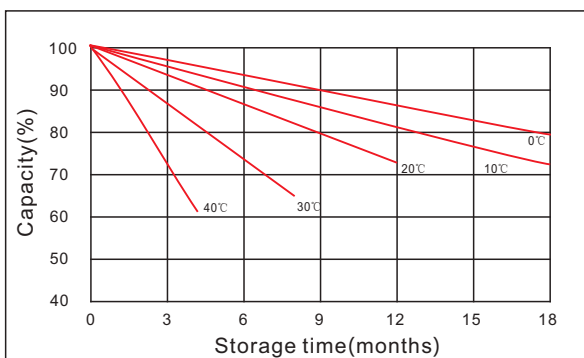
The effect of temperature on capacity



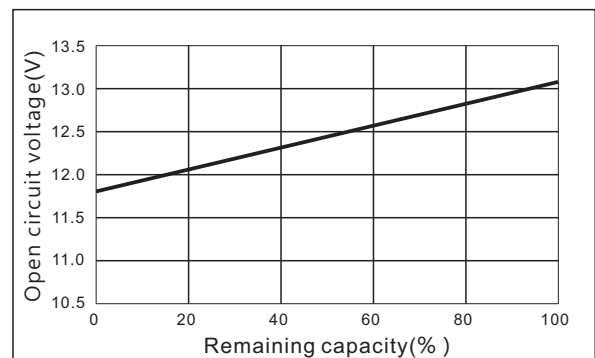
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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