

JDG12-35

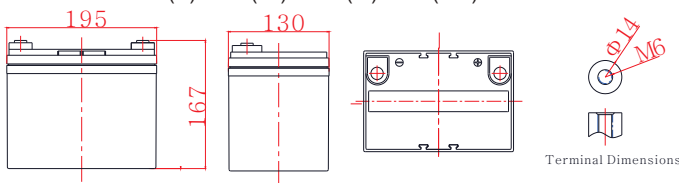


General Features

- > 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: 195(L)×130(W)×167(H)×167(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 | 35Ah |
| Design life | 12 years |
| Terminal | M6 |
| Approx. Weight | Approx 11.5kg (25.4lbs) |
| Container Material | ABS |
| Rated Capacity | 35.0Ah → 10Hour Rate (3.50A to 10.8V) |
| | 27.6Ah → 3Hour Rate (9.21A to 10.8V) |
| | 22.5Ah → 1Hour Rate (22.5A to 10.5V) |
| Internal resistance | Full charged at 25°C: 12.8 mΩ |
| Max. Discharge Current | 420A(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. 8.8A ; Recom.3.5A |
| 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)

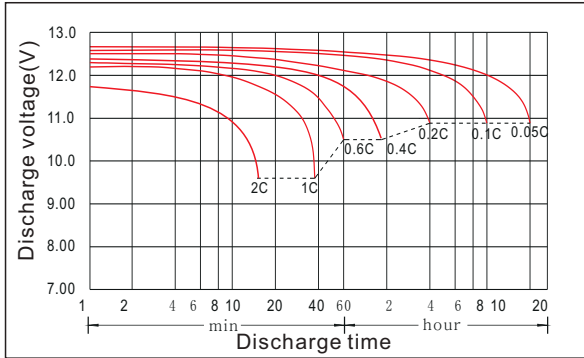
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 64.3 | 39.1 | 23.1 | 13.2 | 9.61 | 6.45 | 4.24 | 3.62 | 1.91 |
| 1.65V | 62.3 | 38.4 | 23.0 | 13.2 | 9.51 | 6.39 | 4.20 | 3.59 | 1.90 |
| 1.70V | 61.0 | 37.8 | 22.8 | 13.1 | 9.38 | 6.32 | 4.17 | 3.55 | 1.89 |
| 1.75V | 59.0 | 37.4 | 22.5 | 12.9 | 9.28 | 6.25 | 4.13 | 3.52 | 1.88 |
| 1.80V | 55.0 | 35.8 | 21.9 | 12.6 | 9.21 | 6.08 | 4.10 | 3.50 | 1.87 |
| 1.85V | 49.0 | 32.7 | 20.3 | 12.0 | 8.67 | 5.78 | 3.93 | 3.38 | 1.84 |

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

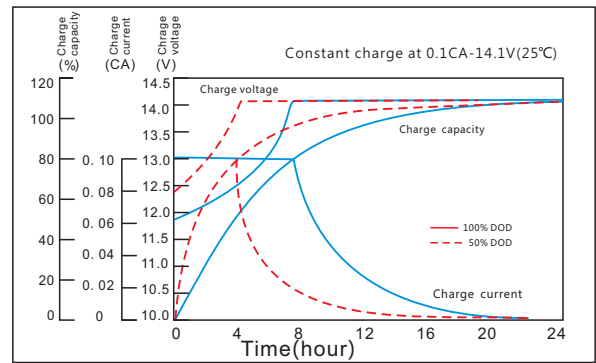
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 113 | 70.7 | 43.7 | 25.0 | 18.3 | 12.2 | 8.23 | 6.97 | 3.77 |
| 1.65V | 111 | 70.1 | 43.3 | 25.0 | 18.1 | 12.2 | 8.17 | 6.90 | 3.75 |
| 1.70V | 110 | 70.1 | 43.0 | 24.9 | 17.9 | 12.1 | 8.13 | 6.83 | 3.74 |
| 1.75V | 109 | 69.7 | 42.7 | 24.7 | 17.8 | 12.0 | 8.07 | 6.76 | 3.72 |
| 1.80V | 103 | 68.1 | 42.3 | 24.7 | 17.8 | 11.9 | 8.00 | 6.69 | 3.70 |
| 1.85V | 92.3 | 62.4 | 39.3 | 23.6 | 16.9 | 11.3 | 7.73 | 6.58 | 3.67 |

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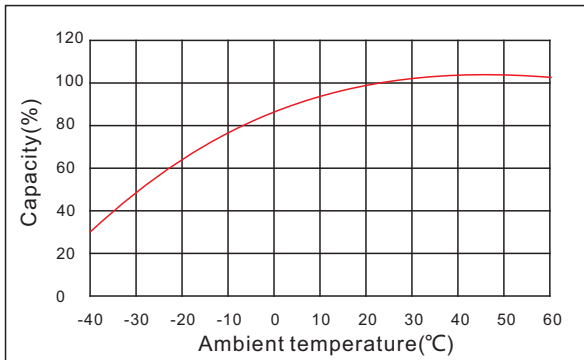
Discharge characteristic



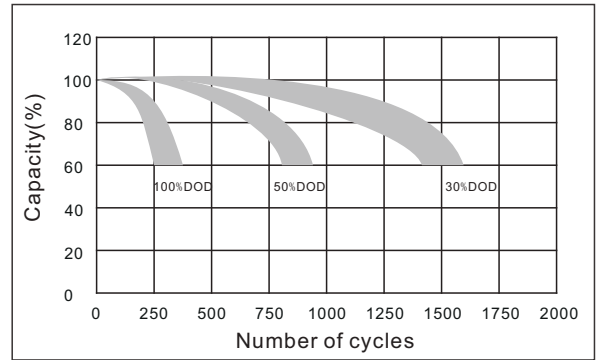
Charging characteristic



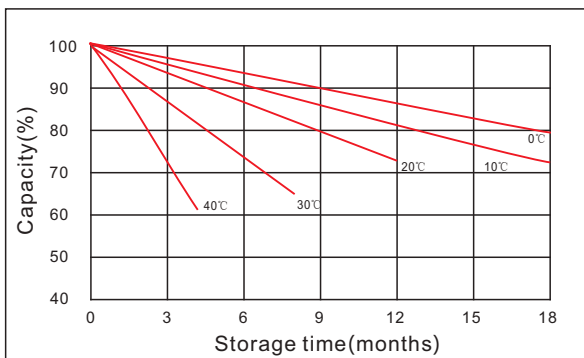
The effect of temperature on capacity



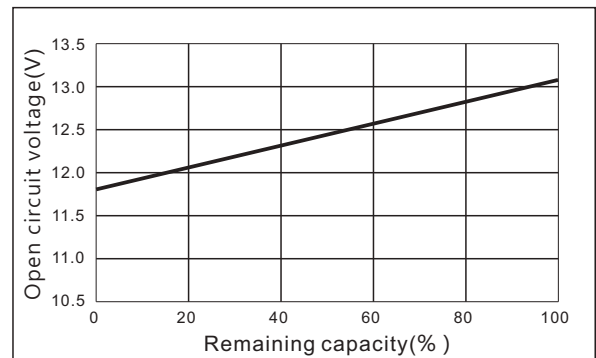
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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