

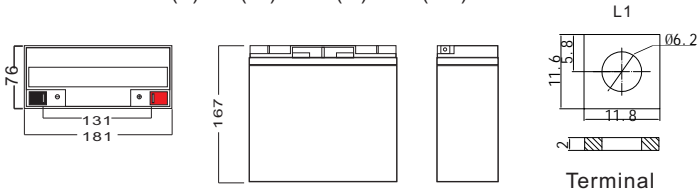


General Features

- 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



Dimension: 181(L)×76(W)×167(H)×167(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 | 22.0Ah |
| Design life | 5 years |
| Terminal | L1 |
| Approx. Weight | Approx5.80kg (12.8lbs) |
| Container Material | ABS |
| Rated Capacity | 22.0Ah → 20Hour Rate (1.10A to 10.5V) |
| | 17.6Ah → 3Hour Rate (5.85A to 10.2V) |
| | 14.6Ah → 1Hour Rate (14.6A to 9.60V) |
| Internal resistance | Full charged at 25°C: 13.6 mΩ |
| Max. Discharge Current | 330A(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.5.50A ; Recom.2.20A |
| 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)

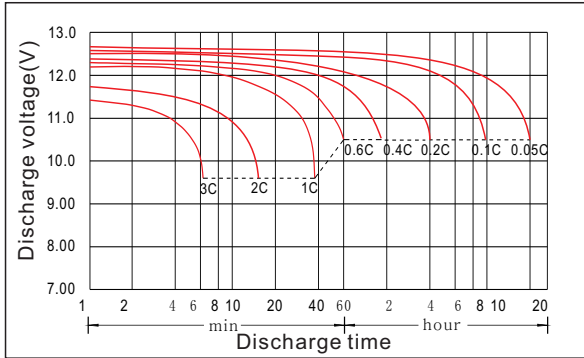
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 88.0 | 57.6 | 42.9 | 28.1 | 17.9 | 14.6 | 8.95 | 8.40 | 6.13 | 4.91 | 4.18 | 3.17 | 2.76 | 2.20 | 1.18 |
| 1.65V | 87.4 | 55.1 | 39.3 | 26.7 | 16.8 | 13.7 | 8.87 | 8.07 | 5.96 | 4.76 | 4.09 | 3.14 | 2.71 | 2.18 | 1.15 |
| 1.70V | 71.5 | 51.8 | 36.7 | 25.9 | 16.3 | 13.3 | 8.66 | 7.91 | 5.85 | 4.51 | 4.04 | 3.07 | 2.67 | 2.13 | 1.13 |
| 1.75V | 66.5 | 49.3 | 34.2 | 25.3 | 15.7 | 12.8 | 8.50 | 7.71 | 5.76 | 4.44 | 3.87 | 3.01 | 2.60 | 2.09 | 1.10 |
| 1.80V | 61.1 | 46.5 | 31.8 | 24.4 | 15.2 | 12.4 | 8.30 | 7.51 | 5.44 | 4.35 | 3.71 | 2.94 | 2.54 | 2.04 | 1.07 |
| 1.85V | 54.5 | 43.1 | 28.3 | 22.4 | 14.1 | 11.5 | 8.05 | 7.14 | 5.12 | 4.22 | 3.54 | 2.85 | 2.43 | 1.98 | 1.05 |

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

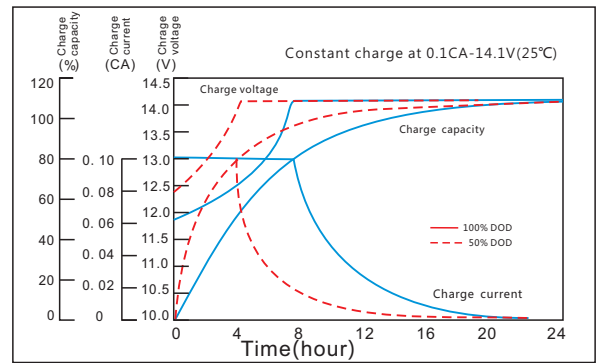
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 166 | 104 | 78.5 | 47.5 | 32.3 | 26.9 | 18.0 | 15.8 | 11.6 | 9.29 | 7.89 | 6.25 | 5.20 | 4.26 | 2.33 |
| 1.65V | 153 | 98.2 | 73.7 | 47.2 | 30.4 | 25.3 | 17.6 | 15.2 | 11.2 | 9.00 | 7.74 | 6.13 | 5.12 | 4.18 | 2.27 |
| 1.70V | 139 | 95.1 | 70.4 | 47.0 | 29.4 | 24.5 | 17.5 | 14.8 | 11.1 | 8.55 | 7.51 | 6.09 | 5.07 | 4.15 | 2.25 |
| 1.75V | 126 | 92.2 | 67.8 | 46.6 | 28.6 | 23.8 | 17.1 | 14.5 | 10.9 | 8.44 | 7.37 | 5.94 | 4.86 | 4.05 | 2.20 |
| 1.80V | 113 | 89.3 | 64.8 | 46.2 | 28.1 | 23.4 | 16.8 | 14.4 | 10.6 | 8.37 | 7.18 | 5.82 | 4.70 | 3.97 | 2.19 |
| 1.85V | 101 | 83.5 | 58.0 | 42.3 | 26.3 | 21.9 | 16.5 | 13.8 | 10.1 | 8.24 | 6.85 | 5.73 | 4.50 | 3.91 | 2.17 |

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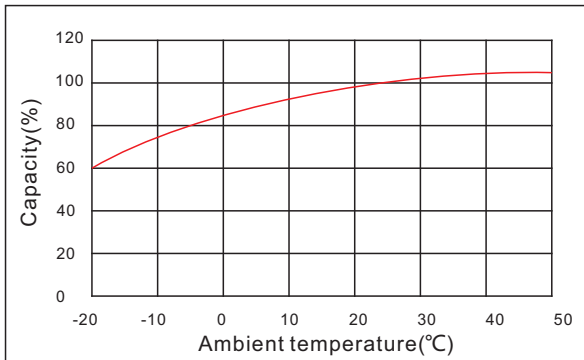
Discharge characteristic



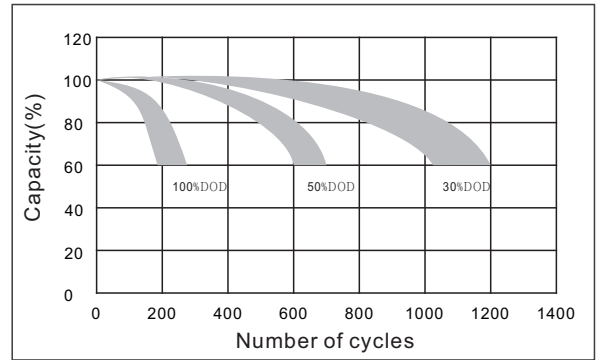
Charging characteristic



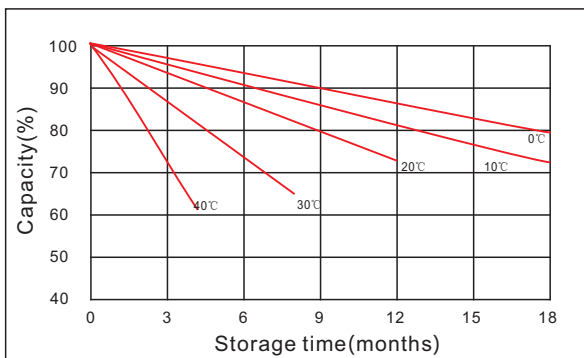
The effect of temperature on capacity



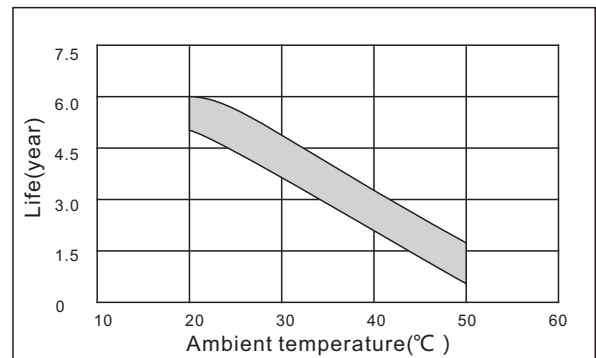
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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