

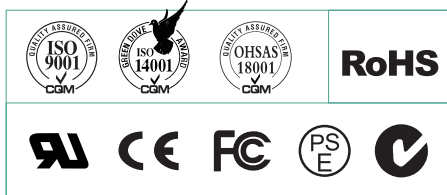
6-EVF-24

Executive standard: GB/T 32620.1-2016

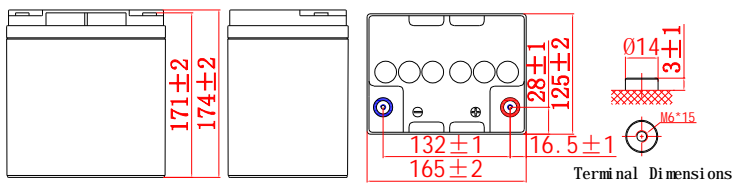


General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Excellent charge acceptance ability
- Strong high and low temperature performance
- Optimized capability of instant high-current discharging
- Low self-discharge rate



Dimension: 165(L)×125(W)×174(H)×174(TH) Unit: mm



Applications

- Electric vehicle
- Electric wheelchair
- Electric scooter
- Electric play car for children
- Garbage truck
- Patrol car

Specification

| | |
|-----------------------|--|
| Nominal Voltage | 12V |
| Nominal Capacity | 24Ah |
| Design life | 5 years |
| Terminal | M6 |
| Approx. Weight | Approx 9.0kg(19.8lbs) |
| Container Material | ABS |
| Rated Capacity | 29.0Ah 20Hour Rate (1.45A to 10.5V) 24.0Ah 3Hour Rate (8.00A to 10.5V) 19.0Ah 1Hour Rate (19.0A to 10.5V) |
| Operating Temperature | Discharge: -20 ~50°C(-4~ 122°F) Charge: -20 ~50°C(-4~ 122°F) Storage: -20 ~50°C(-4~ 122°F) |
| Charge Method (25 °C) | Float Use:13.7-13.9V@25 Cycle Use :14.7-14.9V,@25 Max charge current 3.6A |
| Self discharge | 3% of capacity declined per month at 25°C |

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

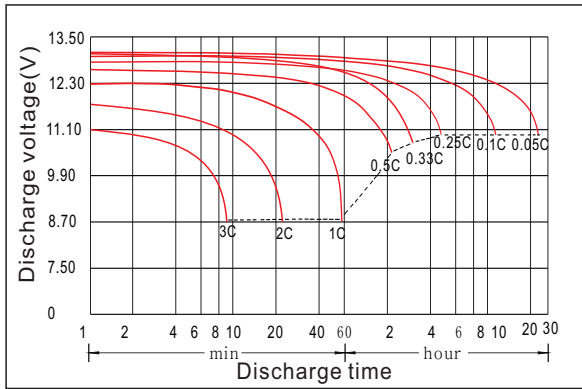
| FV/Time | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|------|------|------|------|------|------|------|
| 1.60V | 35.6 | 19.5 | 11.5 | 8.30 | 5.15 | 3.30 | 2.78 | 1.47 |
| 1.65V | 35.0 | 19.4 | 11.5 | 8.23 | 5.12 | 3.27 | 2.75 | 1.47 |
| 1.70V | 34.3 | 19.3 | 11.4 | 8.10 | 5.06 | 3.24 | 2.73 | 1.46 |
| 1.75V | 34.0 | 19.0 | 11.2 | 8.00 | 5.00 | 3.21 | 2.70 | 1.45 |
| 1.80V | 32.5 | 18.5 | 11.0 | 7.97 | 4.88 | 3.21 | 2.67 | 1.44 |
| 1.85V | 29.5 | 17.2 | 10.4 | 7.51 | 4.63 | 3.06 | 2.59 | 1.42 |

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

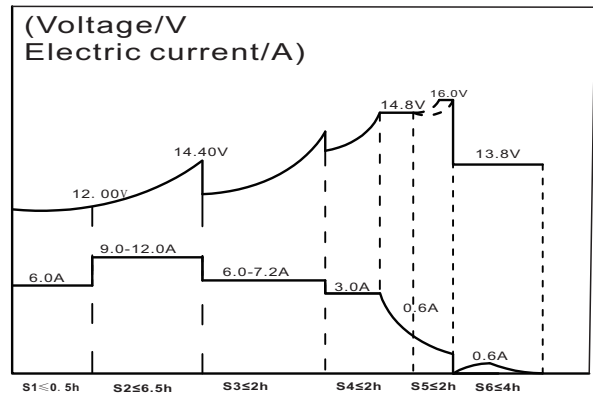
| FV/Time | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|------|------|------|------|------|------|------|
| 1.60V | 64.4 | 37.1 | 21.8 | 15.8 | 9.79 | 6.42 | 5.35 | 2.91 |
| 1.65V | 63.8 | 36.8 | 21.7 | 15.6 | 9.73 | 6.36 | 5.29 | 2.90 |
| 1.70V | 63.8 | 36.5 | 21.6 | 15.5 | 9.66 | 6.33 | 5.23 | 2.88 |
| 1.75V | 63.4 | 36.1 | 21.5 | 15.4 | 9.60 | 6.30 | 5.20 | 2.87 |
| 1.80V | 61.7 | 35.8 | 21.4 | 15.4 | 9.48 | 6.24 | 5.14 | 2.86 |
| 1.85V | 56.6 | 33.2 | 20.5 | 14.6 | 9.05 | 6.03 | 5.05 | 2.83 |

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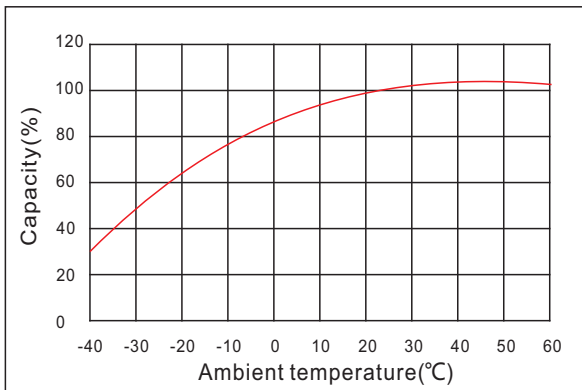
Discharge characteristic



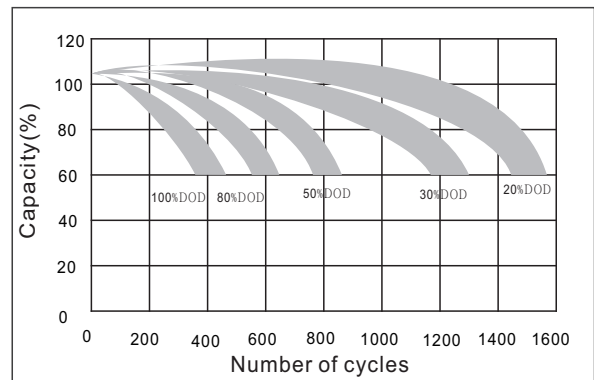
Charging characteristic



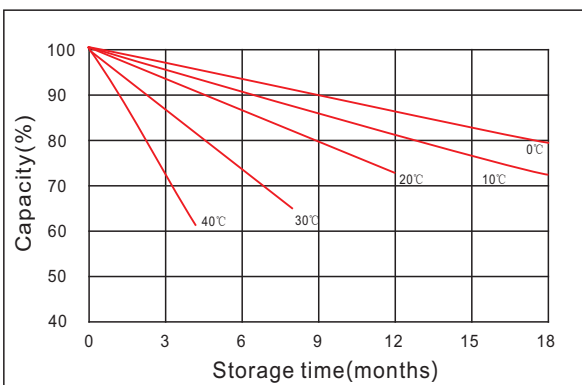
The effect of temperature on capacity



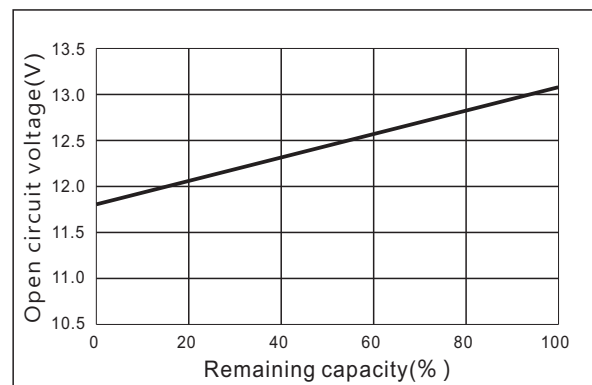
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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