

Electric vehicle battery expert

EV12-12

Applications

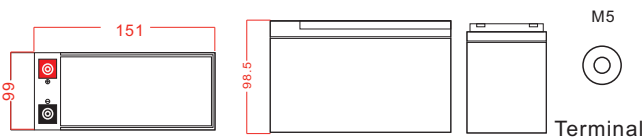
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

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: 151(L)×99(W)×98(H)×98.5(TH) Unit: mm



Specification

| | |
|-----------------------|--|
| Nominal Voltage | 12V |
| Nominal Capacity | 12Ah |
| Design life | 5 years |
| Terminal | M5 |
| Approx. Weight | Approx4.10kg (9.05lbs) |
| Container Material | ABS |
| Rated Capacity | 15.4Ah 10Hour Rate (1.54A to 10.5V) 12.0Ah 2Hour Rate (6.00A to 10.5V) 10.5Ah 1Hour Rate (10.5A 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°C Cycle Use :14.7-14.9V,@25°C Max charge current 2.4A |
| Self discharge | 3% of capacity declined per month at 25°C |

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

| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 56.4 | 30.3 | 18.4 | 10.8 | 6.17 | 4.58 | 3.01 | 1.93 | 1.58 | 0.83 |
| 1.65V | 54.6 | 29.4 | 18.1 | 10.7 | 6.14 | 4.53 | 2.98 | 1.91 | 1.57 | 0.83 |
| 1.70V | 52.5 | 28.7 | 17.8 | 10.6 | 6.10 | 4.46 | 2.95 | 1.90 | 1.55 | 0.82 |
| 1.75V | 48.2 | 27.8 | 17.6 | 10.5 | 6.00 | 4.42 | 2.91 | 1.88 | 1.54 | 0.82 |
| 1.80V | 43.2 | 25.9 | 16.9 | 10.2 | 5.89 | 4.38 | 2.84 | 1.87 | 1.52 | 0.81 |
| 1.85V | 38.6 | 23.1 | 15.4 | 9.45 | 5.59 | 4.13 | 2.70 | 1.79 | 1.48 | 0.80 |

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

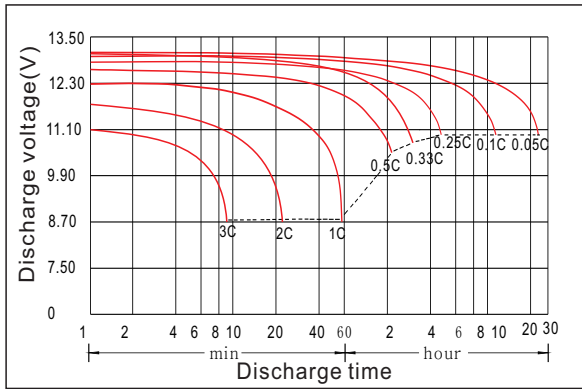
| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 94.5 | 53.3 | 33.3 | 20.4 | 11.7 | 8.70 | 5.70 | 3.75 | 3.05 | 1.64 |
| 1.65V | 90.9 | 52.4 | 33.0 | 20.2 | 11.6 | 8.59 | 5.67 | 3.72 | 3.02 | 1.64 |
| 1.70V | 90.4 | 51.8 | 33.0 | 20.0 | 11.6 | 8.54 | 5.63 | 3.70 | 2.99 | 1.63 |
| 1.75V | 84.3 | 51.5 | 32.8 | 19.9 | 11.5 | 8.50 | 5.59 | 3.67 | 2.95 | 1.62 |
| 1.80V | 77.4 | 48.6 | 32.1 | 19.7 | 11.5 | 8.46 | 5.53 | 3.64 | 2.92 | 1.61 |
| 1.85V | 69.1 | 43.5 | 29.4 | 18.3 | 11.0 | 8.05 | 5.28 | 3.52 | 2.88 | 1.60 |

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

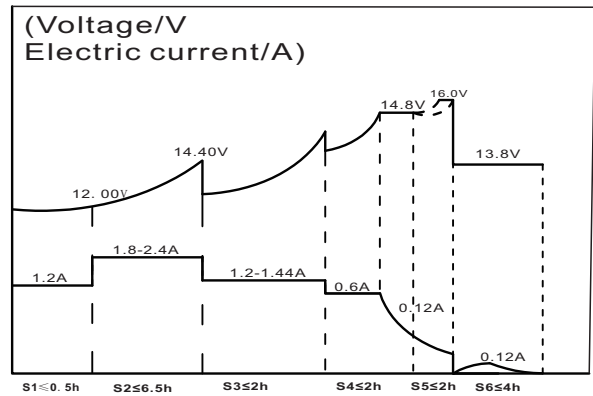
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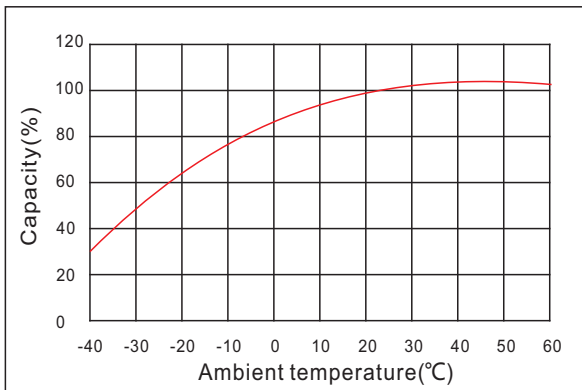
Discharge characteristic



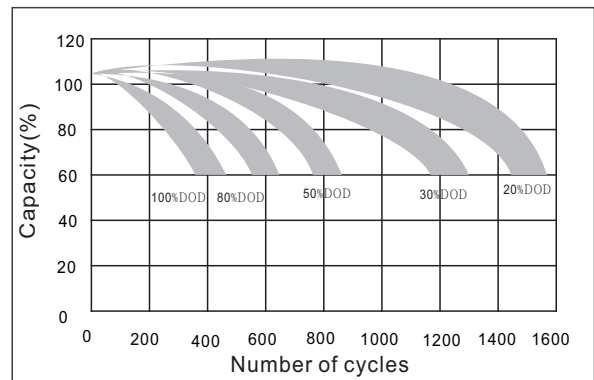
Charging characteristic



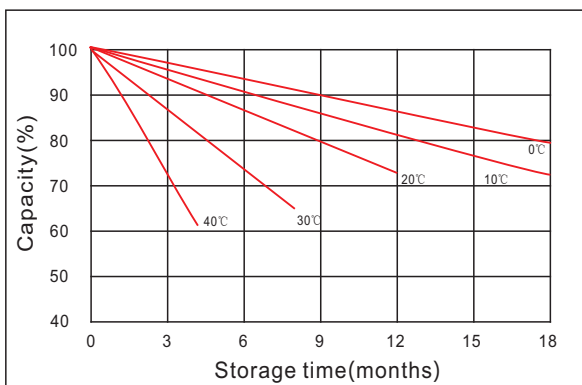
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

