

JM12-150 (12V150AH/HR)

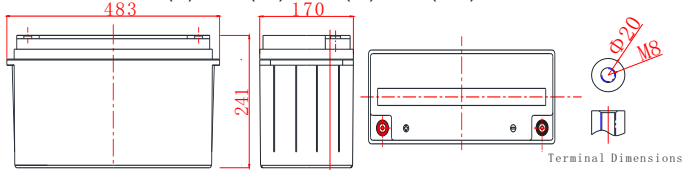


General Features

- 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
- Long life



Dimension: 483(L) × 170(W) × 241(H) × 241(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 | 150Ah |
| Design life | 10 years |
| Terminal | M8 |
| Approx. Weight | Approx 42.5kg (93.7lbs) |
| Container Material | ABS |
| Rated Capacity | 150Ah 10Hour Rate (15.0A to 10.8V) |
| | 121Ah 3Hour Rate (40.3A to 10.8V) |
| | 98.2Ah 1Hour Rate (98.2A to 10.5V) |
| Internal resistance | Full charged at 25°C: 3.5 mΩ |
| Max. Discharge Current | 1800A(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.37.5A ; Recom.15A |
| Float Charge voltage(-3mV/°C) : | |
| Charge Method (25 °C) | 13.5-13.8V, recom. 13.5V(Full floating system) |
| | 13.5-13.8V, recom. 13.62V(Cycle use system) |
| | Equalize charge: 13.8-14.1V, recom. 14.1V(-4mV/°C) |
| Cycle charge: | 14.4-15.0V, recom. 14.4V(-5mV/°C) |
| Self discharge | 3% of capacity declined per month at 25°C |

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

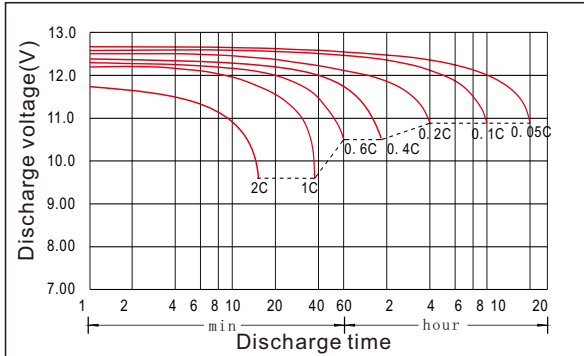
| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 529 | 284 | 173 | 101 | 57.9 | 42.0 | 28.2 | 18.5 | 15.6 | 8.19 |
| 1.65V | 512 | 275 | 170 | 100 | 57.6 | 41.6 | 27.9 | 18.4 | 15.5 | 8.15 |
| 1.70V | 492 | 269 | 167 | 100 | 57.2 | 41.0 | 27.6 | 18.2 | 15.3 | 8.10 |
| 1.75V | 452 | 261 | 165 | 98.2 | 56.3 | 40.6 | 27.3 | 18.1 | 15.2 | 8.07 |
| 1.80V | 406 | 243 | 158 | 95.7 | 55.3 | 40.3 | 26.6 | 17.9 | 15.0 | 8.03 |
| 1.85V | 362 | 217 | 144 | 88.6 | 52.5 | 37.9 | 25.3 | 17.2 | 14.6 | 7.89 |

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

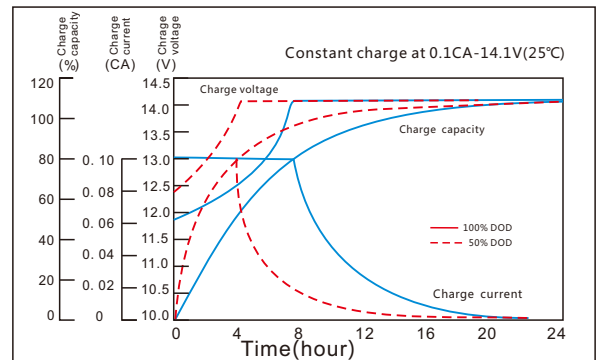
| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|-----|-----|------|------|------|------|------|
| 1.60V | 886 | 500 | 313 | 191 | 110 | 80.0 | 53.5 | 36.0 | 30.0 | 16.2 |
| 1.65V | 852 | 491 | 310 | 189 | 109 | 78.9 | 53.2 | 35.7 | 29.7 | 16.1 |
| 1.70V | 848 | 486 | 310 | 188 | 109 | 78.5 | 52.8 | 35.6 | 29.4 | 16.1 |
| 1.75V | 791 | 483 | 308 | 187 | 108 | 78.1 | 52.5 | 35.3 | 29.1 | 16.0 |
| 1.80V | 726 | 456 | 301 | 185 | 108 | 77.8 | 51.9 | 35.0 | 28.8 | 15.9 |
| 1.85V | 648 | 408 | 276 | 172 | 103 | 73.9 | 49.5 | 33.8 | 28.4 | 15.8 |

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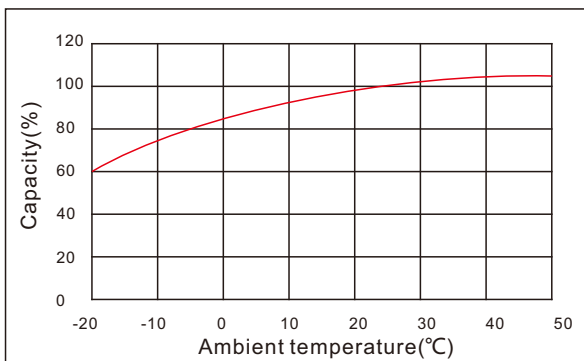
Discharge characteristic



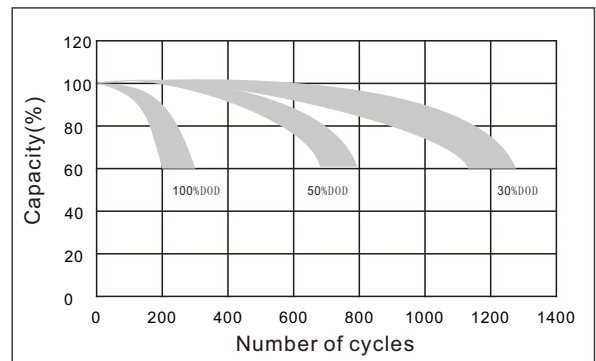
Charging characteristic



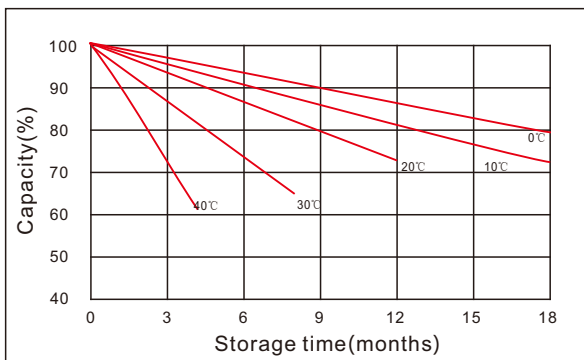
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

