



# JM Series lead-acid battery JM12-200(G)

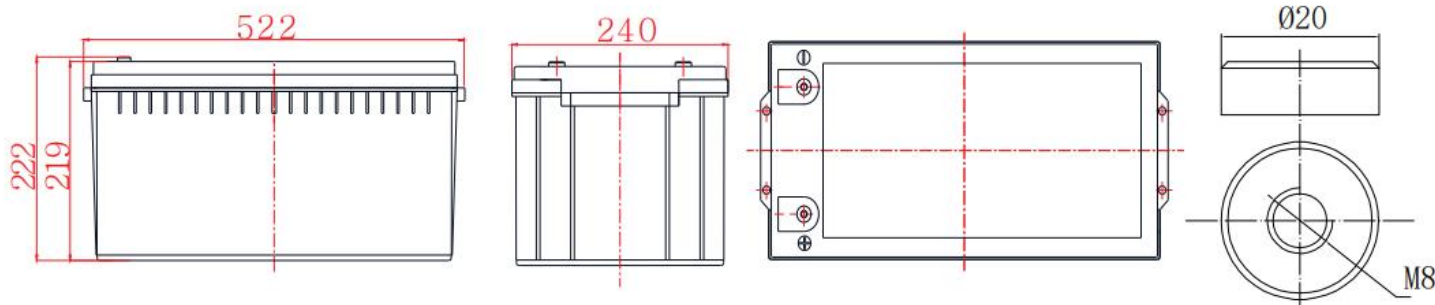
## General Features

- ▶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:522(L)×240(W) ×219(H)×222(TH)/(±3)

Unit: mm



Terminal Dimensions

## Specification

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Nominal Voltage                             | 12V                                       |
| Nominal Capacity                            | 200Ah@10hour-rate to 1.80V per cell @25°C |
| Design life                                 | 10 years                                  |
| Terminal                                    | M8                                        |
| Approx. Weight                              | Approx61.5kg±3% (135.6lbs±3%)             |
| Container Material                          | ABS(UL94-HB, UL94-V0 Optional)            |
| short-circuit current                       | 3000A                                     |
| Internal resistance(Full charged at 25. °C) | 4.0 mΩ                                    |
| Self discharge                              | 3% of capacity declined per month at 25°C |

## 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)

|                            |                        |
|----------------------------|------------------------|
| Charge current:            | Max. 50A;Recom.20A     |
| 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) |

## Standards

Executive standard: IEC 60896-21/22,  
GB/T 19638.1-2014

## Applications

- ▶UPS/EPS
- ▶Power systems
- ▶Telecommunications system
- ▶Emergency lighting、Auto control system
- ▶Solar/wind generating storage cyclic
- ▶Other general purpose

## Rated Capacity

|                              |         |
|------------------------------|---------|
| 10Hour Rate (20.0A to 10.8V) | 200.0Ah |
| 3Hour Rate (53.2A to 10.2V)  | 159.6Ah |
| 1Hour Rate (127.1A to 9.6V)  | 127.1Ah |

## Attain Certificate

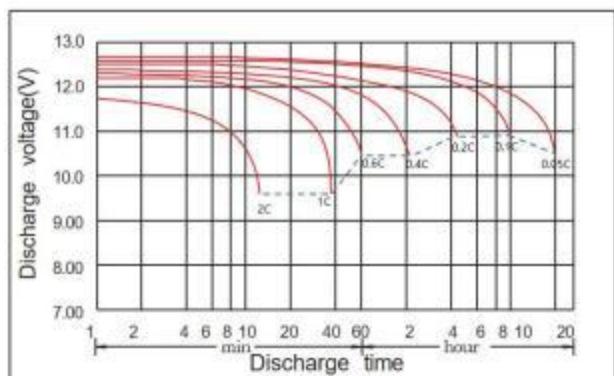


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

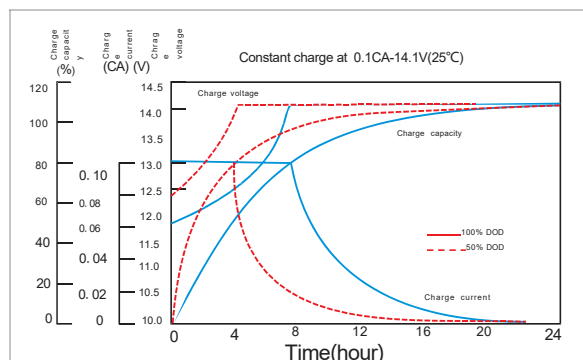


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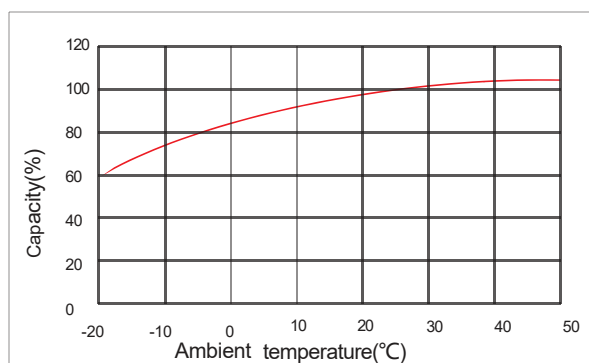
## Discharge characteristic



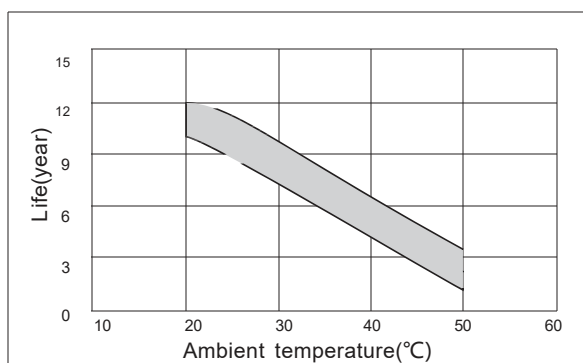
## Charging characteristic



## The effect of temperature on capacity



## The effect of temperature on float life



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

| FV/Time | 15min | 30min | 45min | 1h    | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 363.0 | 217.8 | 161.1 | 127.1 | 94.0 | 75.0 | 56.4 | 45.4 | 38.7 | 32.9 | 25.4 | 21.1 | 11.0 |
| 1 65V   | 348.7 | 209.1 | 154.7 | 122.2 | 91.1 | 73.3 | 54.7 | 44.0 | 37.7 | 32.4 | 25.1 | 20.8 | 10.9 |
| 1.70V   | 326.6 | 199.9 | 147.8 | 117.0 | 87.6 | 70.2 | 53.2 | 43.0 | 36.7 | 31.7 | 24.7 | 20.5 | 10.8 |
| 1.75V   | 303.9 | 189.1 | 141.3 | 113.4 | 83.9 | 67.8 | 51.6 | 41.9 | 35.8 | 30.9 | 24.3 | 20.3 | 10.7 |
| 1 80V   | 286.2 | 183.9 | 136.3 | 108.4 | 80.0 | 65.6 | 51.0 | 40.7 | 34.8 | 30.0 | 23.9 | 20.0 | 10.6 |
| 1.85V   | 237.5 | 155.7 | 118.9 | 95.4  | 72.3 | 58.1 | 44.8 | 36.9 | 31.7 | 27.4 | 22.5 | 18.4 | 10.2 |

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

| FV/Time | 15min | 30min | 45min | 1h    | 1.5h  | 2h    | 3h    | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V   | 637.6 | 395.6 | 293.2 | 232.8 | 173.9 | 138.0 | 106.4 | 85.1 | 72.7 | 63.1 | 49.5 | 41.5 | 21.7 |
| 1 65V   | 618.6 | 383.8 | 283.8 | 226.2 | 169.6 | 135.6 | 104.9 | 83.1 | 71.1 | 62.6 | 49.1 | 41.0 | 21.4 |
| 1.70V   | 588.1 | 370.5 | 280.4 | 220.2 | 167.1 | 131.2 | 100.5 | 81.2 | 69.5 | 61.2 | 48.4 | 40.5 | 21.2 |
| 1.75V   | 555.2 | 357.8 | 268.8 | 215.5 | 162.5 | 127.7 | 99.8  | 79.4 | 68.0 | 59.9 | 47.8 | 40.0 | 21.1 |
| 1 80V   | 525.1 | 345.4 | 258.7 | 206.6 | 154.1 | 125.7 | 97.1  | 78.5 | 66.5 | 58.8 | 47.1 | 39.5 | 21.0 |
| 1.85V   | 437.6 | 300.4 | 229.9 | 184.6 | 143.1 | 115.0 | 87.2  | 72.2 | 62.2 | 53.8 | 44.4 | 37.3 | 19.7 |