



# JL Series lead-acid battery JL2-100

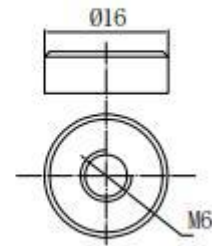
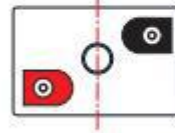
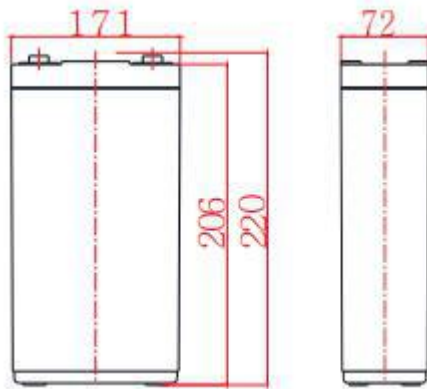
## General Features

- ▶ High corrosion resistant performance: Pb-Ca multi-alloy grid
- ▶ Excellent charge acceptance ability
- ▶ Excellent deep cycle discharge capability
- ▶ Strong high and low temperature performance
- ▶ Precision sealing technology
- ▶ Long life



Dimension: 171(L) × 72(W) × 205(H) × 220(TH)

Unit: mm



Terminal Dimensions

| Specification                               |   |
|---|---|
| Nominal Voltage                             | 2V  |
| Nominal Capacity                            | 100Ah                                     |
| Design life                                 | 10 years                                  |
| Terminal                                    | M6  |
| Approx. Weight                              | Approx 6.00kg (13.2lbs)                   |
| Container Material                          | ABS                                       |
| short-circuit current                       | 2000A                                     |
| Internal resistance(Full charged at 25°C: ) | 1.0 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. 25.0A;Recom.10.0A                    |
| Float charge:2.23-2.27V                     | recom.2.25V(-3mV/ °C)                     |
| Equalize charge:2.30-2.35V                  | recom.2.35V(-4mV/ °C)                     |
| Cycle charge:2.40-2.50V                     | recom.2.40V(-5mV/ °C)                     |

## Standards

Executive standard YD/T 799-2010

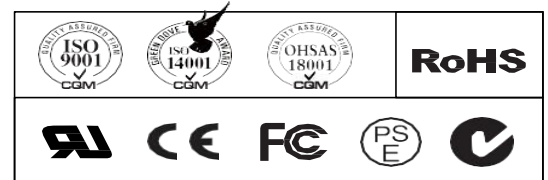
## Applications

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

## Rated Capacity

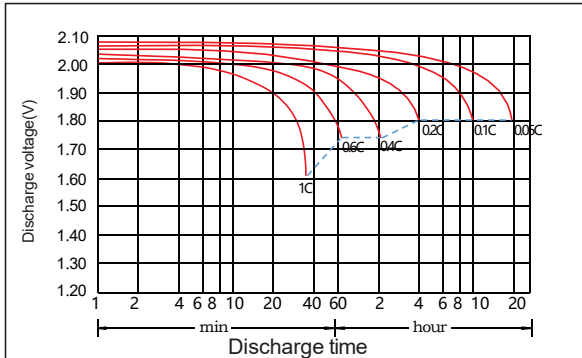
|                              |        |
|------------------------------|--------|
| 10Hour Rate (10.0A to 1.80V) | 100Ah  |
| 3Hour Rate (25.0A to 1.80V)  | 75.0Ah |
| 1Hour Rate (55.0A to 1.75V)  | 55.0Ah |

## Attain Certificate

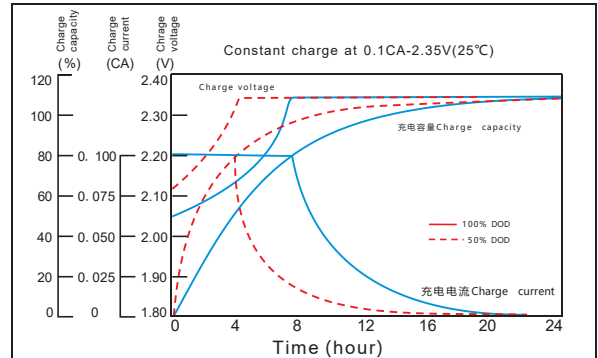


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

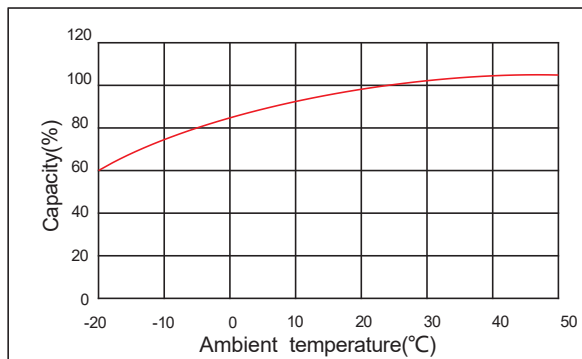
## Discharge characteristic



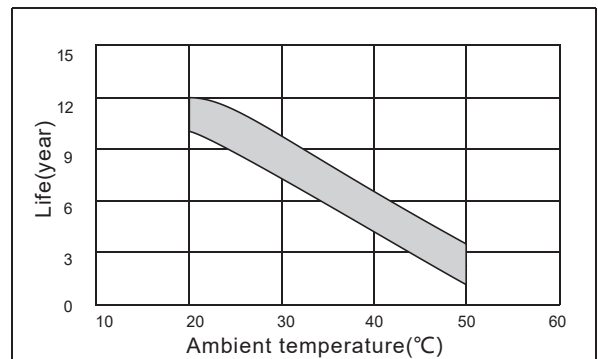
## Charging characteristic



## 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 | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 177  | 150   | 125   | 81.7  | 69.7  | 57.7 | 44.3 | 39.3 | 28.1 | 21.1 | 19.4 | 15.6 | 13.2 | 10.8 | 5.56 |
| 1.65V   | 163  | 139   | 117   | 76.8  | 66.7  | 56.7 | 43.7 | 38.3 | 27.4 | 20.9 | 18.9 | 15.5 | 13.0 | 10.7 | 5.49 |
| 1.70V   | 151  | 129   | 108   | 71.9  | 63.7  | 55.5 | 43.0 | 37.0 | 26.6 | 20.6 | 18.8 | 15.2 | 12.8 | 10.6 | 5.43 |
| 1.75V   | 134  | 116   | 98.9  | 67.1  | 61.0  | 55.0 | 42.3 | 35.7 | 25.8 | 20.3 | 18.2 | 15.0 | 12.6 | 10.4 | 5.33 |
| 1.80V   | 115  | 102   | 92.2  | 62.7  | 58.3  | 53.7 | 41.0 | 33.7 | 25.0 | 19.5 | 17.8 | 14.4 | 12.4 | 10.0 | 5.14 |
| 1.85V   | 101  | 89.8  | 81.0  | 55.8  | 52.0  | 48.5 | 40.3 | 31.4 | 23.7 | 19.3 | 17.2 | 14.3 | 12.0 | 9.90 | 5.01 |

### 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   | 297  | 254   | 220   | 149   | 129   | 108  | 83.2 | 73.8 | 52.9 | 40.3 | 36.9 | 29.9 | 25.3 | 21.0 | 10.9 |
| 1.65V   | 271  | 235   | 208   | 140   | 123   | 107  | 82.0 | 72.0 | 51.5 | 39.8 | 36.3 | 29.5 | 24.9 | 20.8 | 10.8 |
| 1.70V   | 259  | 217   | 194   | 132   | 118   | 104  | 80.8 | 69.6 | 50.1 | 39.1 | 35.7 | 29.1 | 24.5 | 20.5 | 10.6 |
| 1.75V   | 234  | 196   | 181   | 123   | 113   | 103  | 79.4 | 67.2 | 48.5 | 38.3 | 34.6 | 28.6 | 24.3 | 20.2 | 10.5 |
| 1.80V   | 207  | 177   | 171   | 115   | 108   | 101  | 77.0 | 63.3 | 47.0 | 37.4 | 33.8 | 27.6 | 23.7 | 19.4 | 10.1 |
| 1.85V   | 181  | 157   | 151   | 103   | 97.3  | 91.5 | 76.0 | 59.0 | 44.6 | 36.3 | 32.7 | 27.2 | 23.1 | 19.3 | 10.0 |