



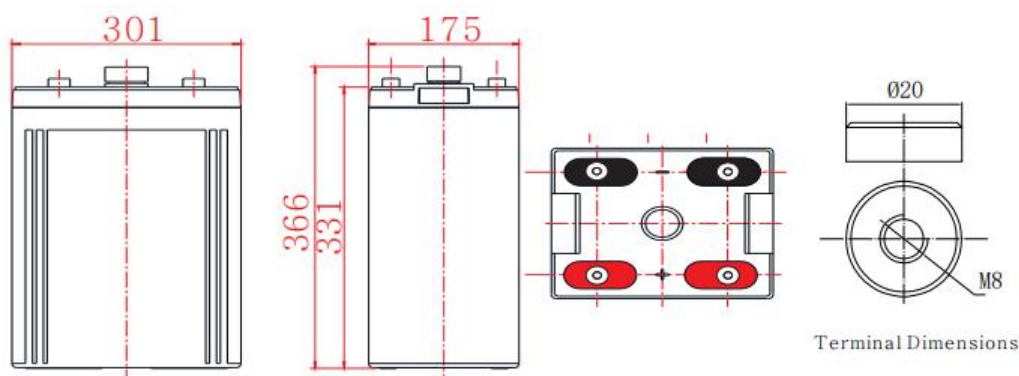
# JL Series lead-acid battery JL2-600B

## 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:301(L)×175(W) ×331(H)×366(TH)/(±3) Unit: mm



## Specification

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Nominal Voltage                             | 2V                                        |
| Nominal Capacity                            | 600Ah@10Hour-rate to 1.80V @25°C          |
| Design life                                 | 20 years                                  |
| Terminal                                    | M8                                        |
| Approx. Weight                              | Approx35.6kg±3% (78.6lbs±3%)              |
| Container Material                          | ABS                                       |
| short-circuit current                       | 3030A                                     |
| Internal resistance(Full charged at 25°C: ) | 0.66 mΩ                                   |
| Self discharge                              | 3% of capacity declined per month at 25°C |

## Operating Temperature

|            |           |
|------------|-----------|
| Discharge: | -40 ~50°C |
| Charge :   | -40 ~50°C |
| Storage:   | -40 ~50°C |

## Charge Method(25 °C)

|                            |                         |
|----------------------------|-------------------------|
| Charge current:            | Max. 120.0A;Recom.60.0A |
| 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

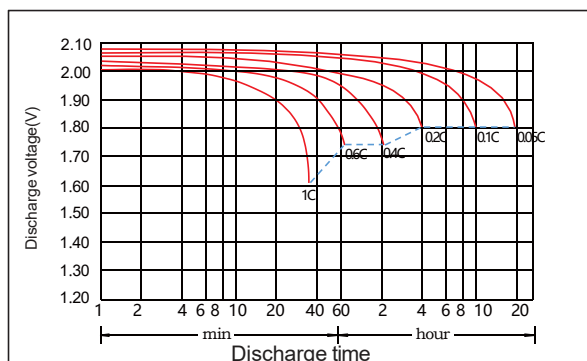
|                              |         |
|------------------------------|---------|
| 10Hour Rate (60.0A to 1.80V) | 600.0Ah |
| 3Hour Rate (150.0A to 1.80V) | 450.0Ah |
| 1Hour Rate (330.0A to 1.75V) | 330.0Ah |

## Attain Certificate

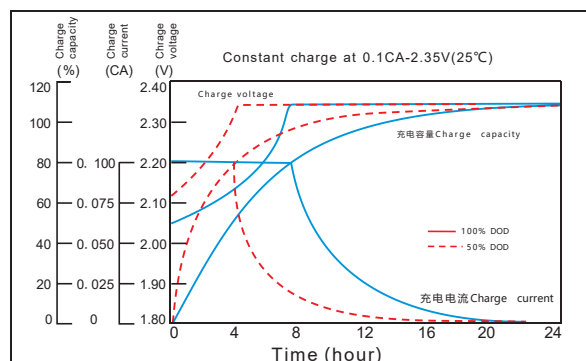
|  |  |  |             |
|--|--|--|-------------|
|  |  |  | <b>RoHS</b> |
|  |  |  |             |

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.

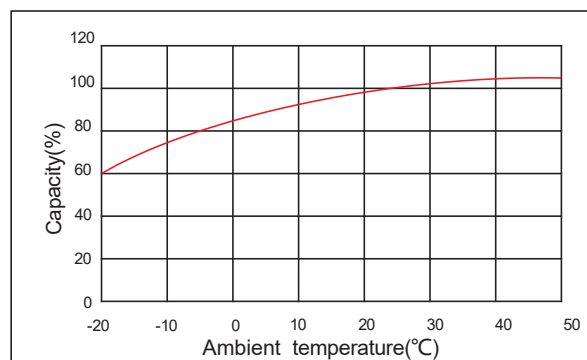
## Discharge characteristic



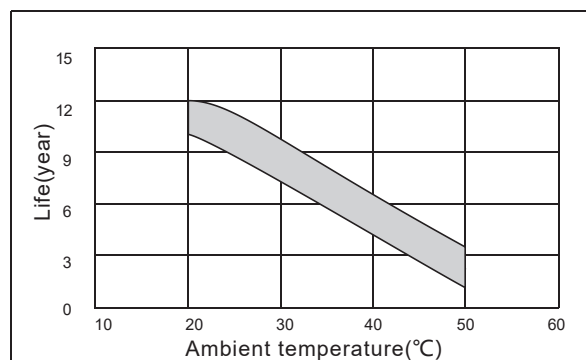
## Charging characteristic



## 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 | 15min | 30min | 45min | 1h  | 1.5h | 2h  | 3h  | 4h  | 5h  | 6h   | 8h   | 10h  | 20h  |
|---------|-------|-------|-------|-----|------|-----|-----|-----|-----|------|------|------|------|
| 1.60V   | 750   | 490   | 418   | 346 | 266  | 236 | 169 | 127 | 116 | 93.8 | 79   | 65   | 33.3 |
| 1.67V   | 700   | 461   | 400   | 340 | 262  | 230 | 164 | 126 | 114 | 92.8 | 77.8 | 64.4 | 33   |
| 1.70V   | 648   | 432   | 382   | 333 | 258  | 222 | 160 | 124 | 113 | 91.4 | 76.6 | 63.4 | 32.6 |
| 1.75V   | 593   | 402   | 366   | 330 | 254  | 214 | 155 | 122 | 109 | 90   | 75.8 | 62.4 | 32   |
| 1.80V   | 553   | 376   | 350   | 322 | 246  | 202 | 150 | 117 | 107 | 86.6 | 74.2 | 60   | 30.9 |
| 1.85V   | 486   | 335   | 312   | 291 | 242  | 188 | 142 | 116 | 103 | 85.6 | 72.2 | 59.4 | 30.1 |

### 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   | 1323  | 897   | 772   | 650 | 499  | 443 | 317 | 242 | 221 | 179 | 152 | 126 | 65.3 |
| 1.67V   | 1248  | 843   | 740   | 639 | 492  | 432 | 309 | 239 | 218 | 177 | 149 | 125 | 64.6 |
| 1.70V   | 1163  | 790   | 708   | 626 | 485  | 418 | 300 | 234 | 214 | 175 | 147 | 123 | 63.8 |
| 1.75V   | 1086  | 736   | 678   | 621 | 476  | 403 | 291 | 230 | 208 | 172 | 146 | 121 | 63   |
| 1.80V   | 1023  | 692   | 648   | 606 | 462  | 380 | 282 | 225 | 203 | 165 | 142 | 117 | 60.7 |
| 1.85V   | 909   | 619   | 584   | 549 | 456  | 354 | 268 | 218 | 196 | 163 | 139 | 116 | 60.2 |