

JL series lead-acid battery

JL2-1500

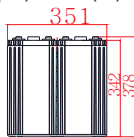
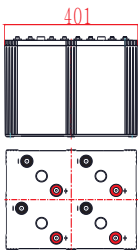


General Features

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



Dimension:401(L)×351(W)×342(H)×378(TH) Unit: mm



Terminal Dimensions

Applications

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

Specification

| | |
|------------------------|-----------------------------------------------------|
| Nominal Voltage | 2V |
| Nominal Capacity | 1500Ah |
| Design life | 15 years |
| Terminal | M8 |
| Approx. Weight | Approx 96.0kg (211lbs) |
| Container Material | ABS |
| Rated Capacity | 1500Ah → 10Hour Rate (150A to 1.80V) |
| | 1155Ah → 3Hour Rate (385A to 1.80V) |
| | 864Ah → 1Hour Rate (864A to 1.75V) |
| Internal resistance | Full charged at 25°C: 0.18 mΩ |
| Max. Discharge Current | 10000A(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. 300A ; Recom. 150.0A |
| Charge Method (25°C) | 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) |
| Self discharge | 3% of capacity declined per month at 25°C |

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

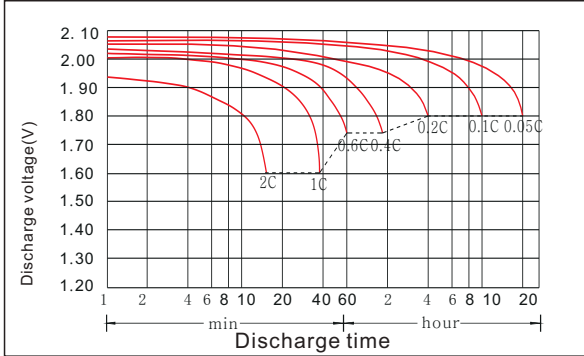
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|------|-----|-----|-----|-----|-----|------|
| 1.60V | 2157 | 1597 | 1000 | 589 | 432 | 291 | 198 | 162 | 86.9 |
| 1.65V | 2010 | 1499 | 948 | 576 | 422 | 284 | 195 | 161 | 86.1 |
| 1.70V | 1885 | 1407 | 906 | 554 | 409 | 281 | 192 | 159 | 84.8 |
| 1.75V | 1784 | 1308 | 864 | 535 | 397 | 274 | 189 | 156 | 83.6 |
| 1.80V | 1683 | 1224 | 809 | 506 | 385 | 267 | 186 | 150 | 80.3 |
| 1.85V | 1492 | 1091 | 736 | 471 | 365 | 258 | 180 | 149 | 79.4 |

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

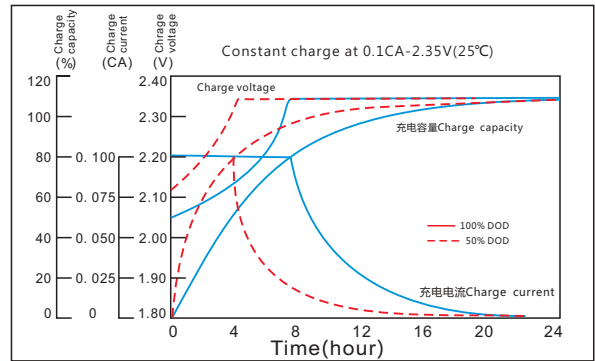
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|------|------|-----|-----|-----|-----|-----|
| 1.60V | 3666 | 2919 | 2060 | 1237 | 908 | 615 | 417 | 343 | 184 |
| 1.65V | 3518 | 2805 | 1904 | 1198 | 875 | 595 | 410 | 336 | 180 |
| 1.70V | 3393 | 2692 | 1813 | 1153 | 842 | 584 | 401 | 326 | 174 |
| 1.75V | 3266 | 2600 | 1742 | 1111 | 809 | 569 | 386 | 321 | 172 |
| 1.80V | 3113 | 2508 | 1640 | 1060 | 782 | 553 | 376 | 316 | 169 |
| 1.85V | 2835 | 2231 | 1517 | 969 | 741 | 529 | 364 | 304 | 163 |

JL2-1500

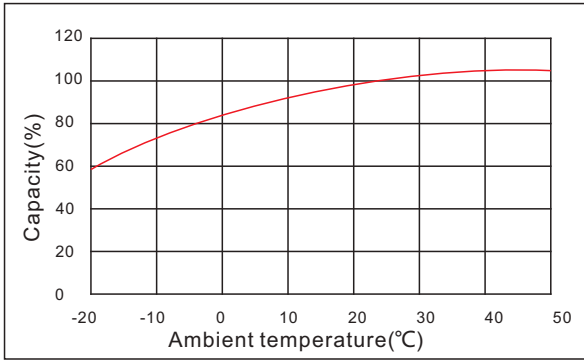
Discharge characteristic



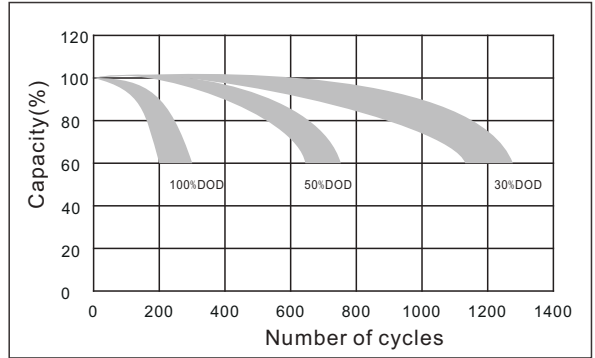
Charging characteristic



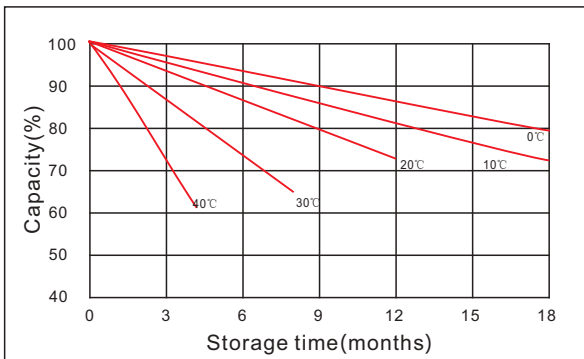
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

