

JL2-500

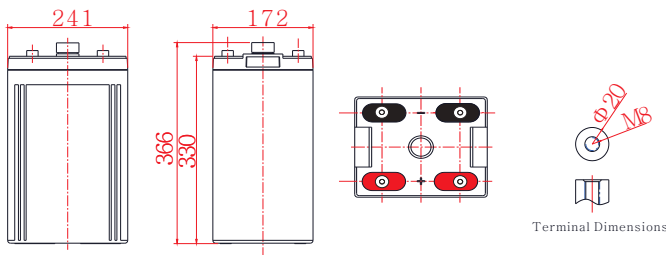


General Features

- > 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: 241(L)×172(W)×330(H)×366(TH) Unit: mm



Applications

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

Specification

| | | | |
|------------------------|--|-------------|------------------|
| Nominal Voltage | 2V | | |
| Nominal Capacity | 500Ah | | |
| Design life | 15 years | | |
| Terminal | M8 | | |
| Approx. Weight | Approx 29.5kg (65.1lbs) | | |
| Container Material | ABS | | |
| Rated Capacity | 500Ah | 10Hour Rate | (50.0A to 1.80V) |
| | 384Ah | 3Hour Rate | (128A to 1.80V) |
| | 288Ah | 1Hour Rate | (288A to 1.75V) |
| Internal resistance | Full charged at 25°C: 0.36 mΩ | | |
| Max. Discharge Current | 5000A(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. 100A ; Recom.50.0A | | |
| 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 | | |

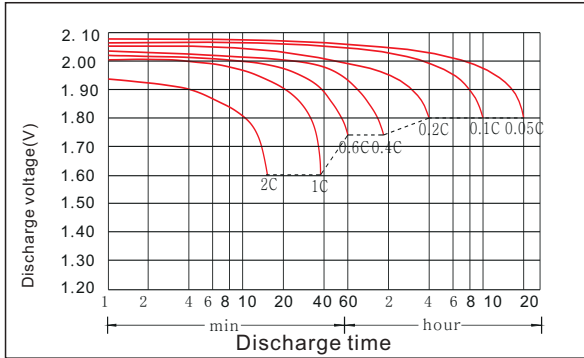
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|-----|-----|-----|------|------|------|------|
| 1.60V | 719 | 532 | 333 | 196 | 144 | 96.9 | 65.9 | 54.2 | 29.0 |
| 1.65V | 670 | 500 | 316 | 192 | 141 | 94.6 | 64.9 | 53.7 | 28.7 |
| 1.70V | 628 | 469 | 302 | 185 | 136 | 93.8 | 63.9 | 52.9 | 28.3 |
| 1.75V | 595 | 436 | 288 | 178 | 132 | 91.2 | 63.1 | 52.1 | 27.9 |
| 1.80V | 561 | 408 | 270 | 169 | 128 | 89.1 | 61.9 | 50.0 | 26.8 |
| 1.85V | 497 | 364 | 245 | 157 | 122 | 86.0 | 60.1 | 49.5 | 26.5 |

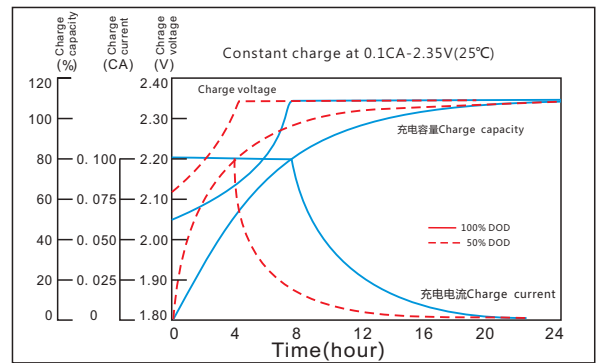
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|-----|-----|-----|-----|-----|-----|------|
| 1.60V | 1222 | 973 | 687 | 412 | 303 | 205 | 139 | 114 | 61.2 |
| 1.65V | 1173 | 935 | 635 | 399 | 292 | 198 | 137 | 112 | 59.9 |
| 1.70V | 1131 | 897 | 604 | 384 | 281 | 195 | 134 | 109 | 58.1 |
| 1.75V | 1089 | 867 | 581 | 370 | 270 | 190 | 129 | 107 | 57.3 |
| 1.80V | 1038 | 836 | 547 | 353 | 261 | 184 | 125 | 105 | 56.4 |
| 1.85V | 945 | 744 | 506 | 323 | 247 | 176 | 121 | 101 | 54.2 |

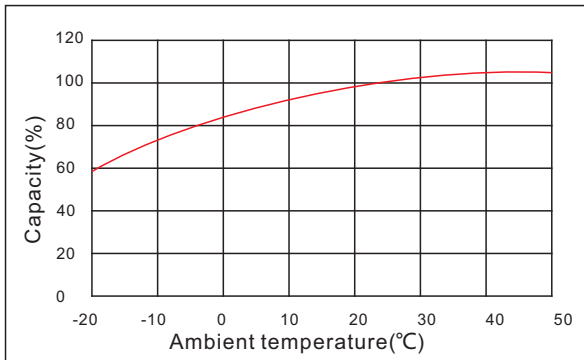
Discharge characteristic



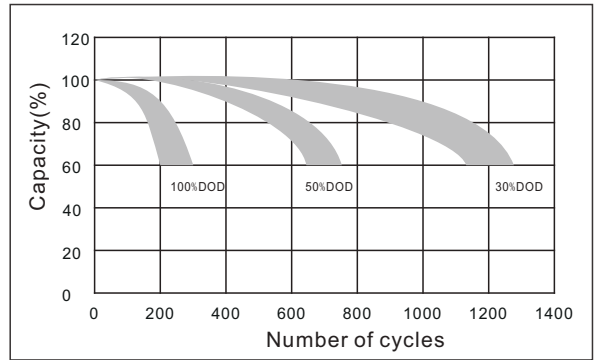
Charging characteristic



The effect of temperature on capacity



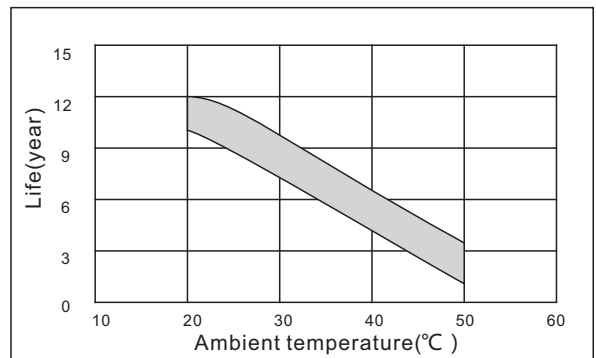
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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