

JPC12-200



Applications

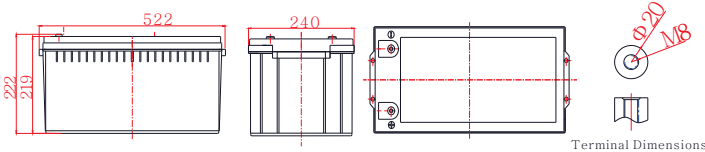
- › Solar/ wind energy and other new energy storage
- › Hybrid vehicles, electric bicycles and other new energy vehicles
- › Other backup or cycle purposes

General Features

- › Lead-carbon composite negative plate, both capacitance and battery characteristics
- › Long cycle life, excellent deep cycle discharge ability
- › Excellent charge acceptance ability
- › Optimized capability of instant high-current discharging
- › Strong high and low temperature performance
- › Precision sealing technology



Dimension:522(L)×240(W)×219(H)×222(TH) Unit: mm



Specification

| | |
|---|--|
| Nominal Voltage | 12V |
| Nominal Capacity | 200Ah |
| Design life | 15 years |
| Terminal | M8 |
| Approx. Weight | Approx 61.5kg (136lbs) |
| Container Material | ABS |
| Rated Capacity | 200Ah → 10Hour Rate (20.0A to 10.8V) |
| | 163Ah → 3Hour Rate (54.2A to 10.8V) |
| | 132Ah → 1Hour Rate (132A to 10.5V) |
| Internal resistance | Full charged at 25°C: 3.30 mΩ |
| Max. Discharge Current | 2400A(5S) |
| Operating Temperature | Discharge: -20 ~60°C(-4~ 140°F) |
| | Charge: -20 ~50°C(-4~ 122°F) |
| | Storage: -20 ~50°C(-4~ 122°F) |
| Charge current: Max. 60.0A ; Recom.20.0~40.0A | |
| Charge Method (25 °C) | 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) |
| Self discharge | 3% of capacity declined per month at 25°C |

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

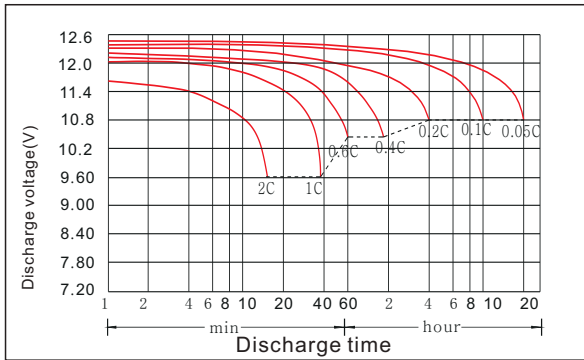
| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|-----|------|------|------|------|------|------|
| 1.60V | 718 | 386 | 234 | 136 | 78.0 | 56.6 | 38.0 | 25.0 | 21.0 | 11.0 |
| 1.65V | 696 | 374 | 230 | 135 | 77.6 | 56.0 | 37.6 | 24.8 | 20.8 | 11.0 |
| 1.70V | 670 | 366 | 226 | 134 | 77.0 | 55.2 | 37.2 | 24.6 | 20.6 | 10.9 |
| 1.75V | 616 | 354 | 224 | 132 | 75.8 | 54.6 | 36.8 | 24.4 | 20.4 | 10.9 |
| 1.80V | 552 | 330 | 216 | 129 | 74.4 | 54.2 | 35.8 | 24.2 | 20.0 | 10.8 |
| 1.85V | 492 | 294 | 196 | 119 | 70.6 | 51.0 | 34.0 | 23.2 | 19.6 | 10.6 |

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

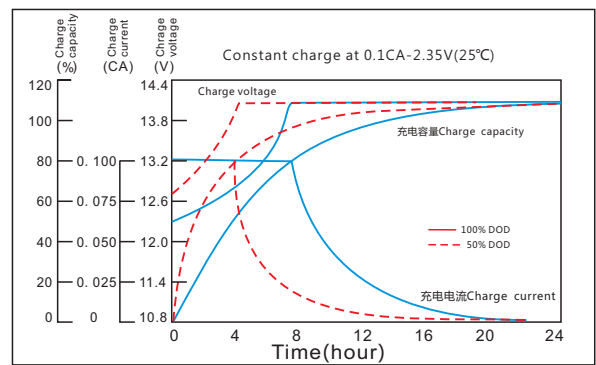
| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|-----|-----|-----|------|------|------|------|
| 1.60V | 1206 | 680 | 426 | 258 | 147 | 108 | 72.0 | 48.4 | 40.4 | 21.8 |
| 1.65V | 1160 | 668 | 422 | 256 | 147 | 106 | 71.6 | 48.0 | 40.0 | 21.8 |
| 1.70V | 1154 | 660 | 422 | 254 | 146 | 106 | 71.0 | 47.8 | 39.6 | 21.6 |
| 1.75V | 1076 | 656 | 420 | 252 | 146 | 105 | 70.6 | 47.4 | 39.2 | 21.6 |
| 1.80V | 988 | 620 | 410 | 250 | 145 | 105 | 69.8 | 47.0 | 38.8 | 21.4 |
| 1.85V | 882 | 554 | 376 | 232 | 139 | 100 | 66.8 | 45.6 | 38.2 | 21.2 |

JPC12-200

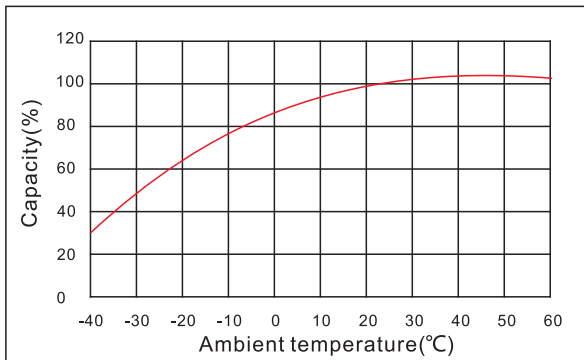
Discharge characteristic



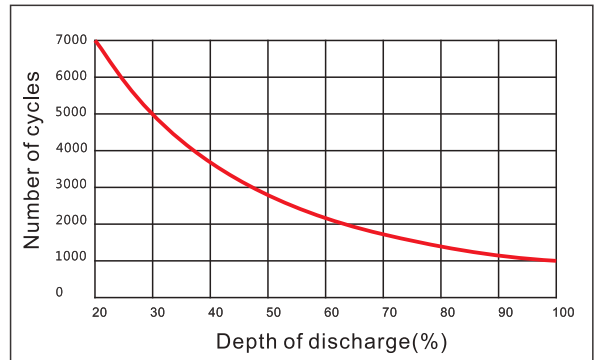
Charging characteristic



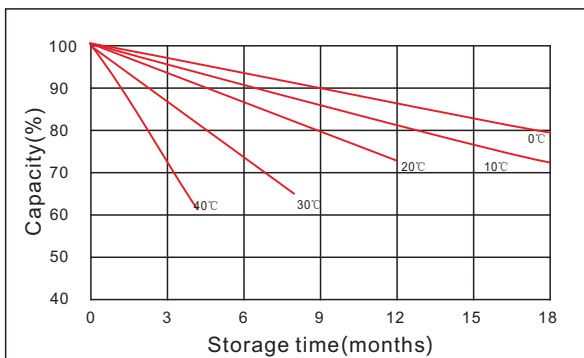
The effect of temperature on capacity



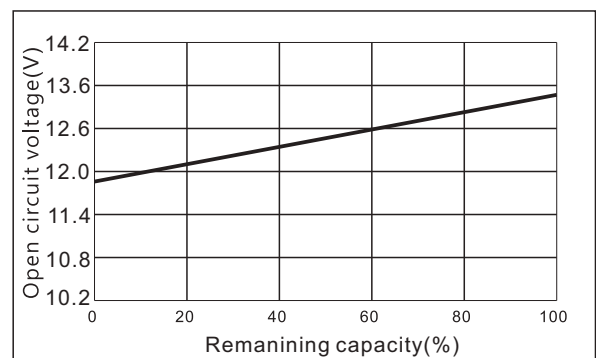
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of discharge depth on cycle life



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