

JPC12-120



Applications

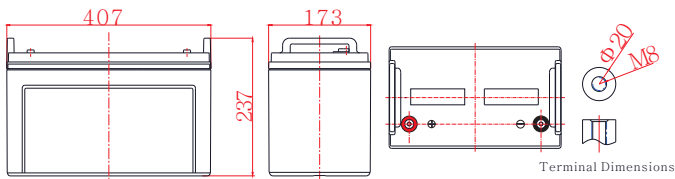
- > Solar/ wind energy and other new energy storage
- > Hybrid vehicles, electric bicycles and other new energy vehicles
- > Other backup or cycle purposes

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: 407(L)×173(W)×237(H)×237(TH) Unit: mm



Specification

| | | | |
|---|---|-------------|------------------|
| Nominal Voltage | 12V | | |
| Nominal Capacity | 120Ah | | |
| Design life | 15 years | | |
| Terminal | M8 | | |
| Approx. Weight | Approx 37.2kg (82.1lbs) | | |
| Container Material | ABS | | |
| Rated Capacity | 120Ah | 10Hour Rate | (12.0A to 10.8V) |
| | 97.5Ah | 3Hour Rate | (32.5A to 10.8V) |
| | 79.3Ah | 1Hour Rate | (79.3A to 10.5V) |
| Internal resistance | Full charged at 25°C: 4.10 mΩ | | |
| Max. Discharge Current | 1440A(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. 36.0A ; Recom.12.0~24.0A | | | |
| 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)

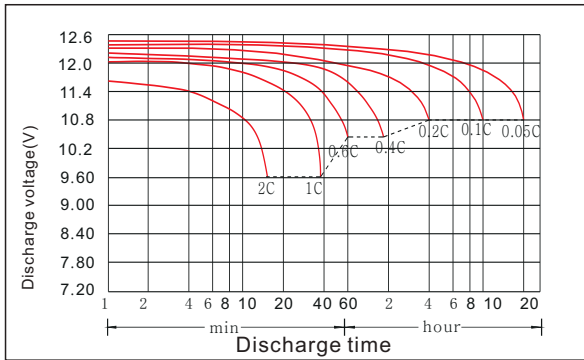
| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 431 | 232 | 140 | 81.6 | 46.8 | 34.0 | 22.8 | 15.0 | 12.6 | 6.61 |
| 1.65V | 418 | 224 | 138 | 81.1 | 46.6 | 33.6 | 22.6 | 14.9 | 12.5 | 6.58 |
| 1.70V | 402 | 220 | 136 | 80.5 | 46.2 | 33.1 | 22.3 | 14.8 | 12.4 | 6.54 |
| 1.75V | 370 | 212 | 134 | 79.3 | 45.5 | 32.8 | 22.1 | 14.6 | 12.2 | 6.52 |
| 1.80V | 331 | 198 | 130 | 77.3 | 44.6 | 32.5 | 21.5 | 14.5 | 12.0 | 6.48 |
| 1.85V | 295 | 176 | 118 | 71.6 | 42.4 | 30.6 | 20.4 | 13.9 | 11.8 | 6.37 |

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

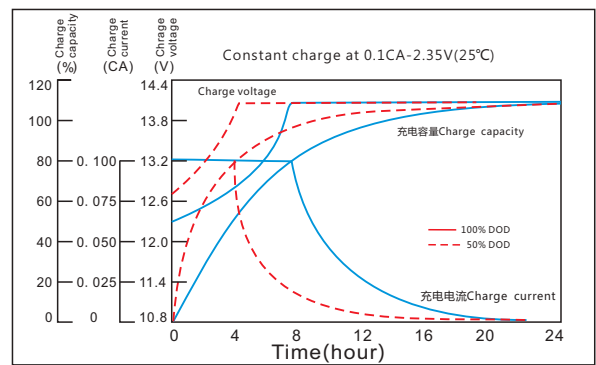
| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|-----|------|------|------|------|------|------|
| 1.60V | 724 | 408 | 256 | 155 | 88.4 | 64.6 | 43.2 | 29.0 | 24.2 | 13.1 |
| 1.65V | 696 | 401 | 253 | 154 | 88.2 | 63.8 | 43.0 | 28.8 | 24.0 | 13.1 |
| 1.70V | 692 | 396 | 253 | 152 | 87.8 | 63.5 | 42.6 | 28.7 | 23.8 | 13.0 |
| 1.75V | 646 | 394 | 252 | 151 | 87.4 | 63.1 | 42.4 | 28.4 | 23.5 | 13.0 |
| 1.80V | 593 | 372 | 246 | 150 | 87.2 | 62.9 | 41.9 | 28.2 | 23.3 | 12.8 |
| 1.85V | 529 | 332 | 226 | 139 | 83.3 | 59.8 | 40.1 | 27.4 | 22.9 | 12.7 |

JPC12-120

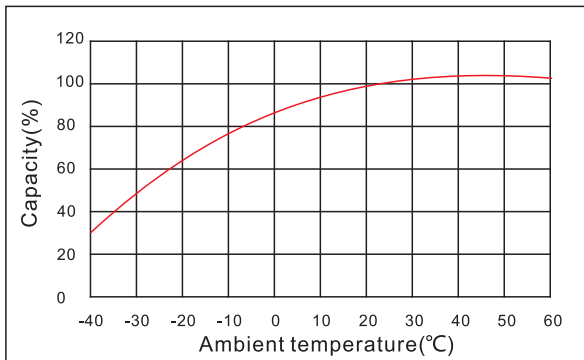
Discharge characteristic



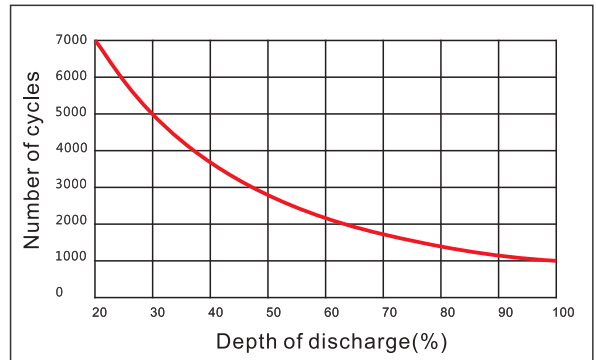
Charging characteristic



The effect of temperature on capacity



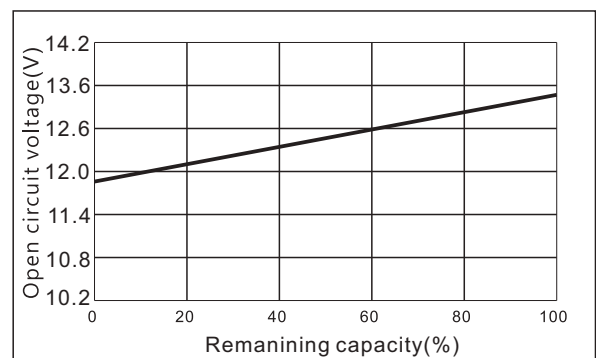
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of discharge depth on cycle life



www.kijo.com.cn info@kijo.com.cn

Jiangxi Jingjiu Power Science&Technology Co. Ltd.
Add: 1388 Fushan No.1 Street, Xiaolan Economic Development Zone, Nanchang City, Jiangxi Province, China.

+86-791-85982779 +86-791-85989842

Jiangxi Jingjiu Power (Jiujiang) Co. Ltd.
Add: Xiwang Rd, Aicheng Industrial Park, Yongxiu Country, Jiujiang City, Jiangxi Province, China.

