

JLG12-150

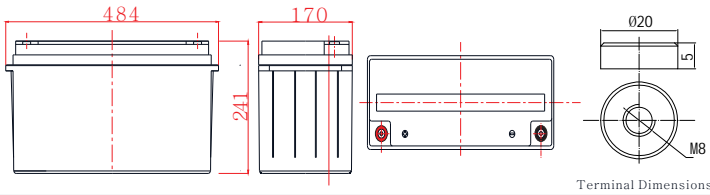


General Features

- › Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- › Relatively rich electrolyte, high temperature and low temperature performance is superior
- › Long cycle life, excellent deep cycle discharge ability
- › Excellent charge acceptance ability
- › Precision sealing technology
- › Long life



Dimension: 484(L) × 170(W) × 241(H) × 241(TH) Unit: mm



Applications

- › Solar / wind energy and other new energy storage
- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting, Auto control system
- › Other general purpose

Specification

| | |
|------------------------|--|
| Nominal Voltage | 12V |
| Nominal Capacity | 150Ah |
| Design life | 10 years |
| Terminal | M8 |
| Approx. Weight | Approx 42.5kg (93.70lbs) |
| Container Material | ABS |
| Rated Capacity | 150.0Ah 20Hour Rate (7.5A to 10.5V) |
| | 114Ah 3Hour Rate (38.0A to 10.2V) |
| | 87.4Ah 1Hour Rate (87.4A to 9.6V) |
| Internal resistance | Full charged at 25°C: 7.5 mΩ |
| Max. Discharge Current | 1800A(5S) |
| Operating Temperature | Discharge: -40 ~60°C (-40~ 140°F) |
| | Charge: -20 ~50°C (-4~ 122°F) |
| | Storage: -20 ~50°C (-4~ 122°F) |
| Charge current: | Max. 37.5A ; Recom. 15.0A |
| Charge Method (25 °C) | Float Charge: 13.5-13.8V, recom. 13.5V(-18mV/ °C) |
| | Equalize charge: 13.8-14.1V, recom. 14.1V(-24mV/ °C) |
| | Cycle charge: 14.4-15.0V, recom. 14.4V(-30mV/ °C) |
| Self discharge | 3% of capacity declined per month at 25°C |

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

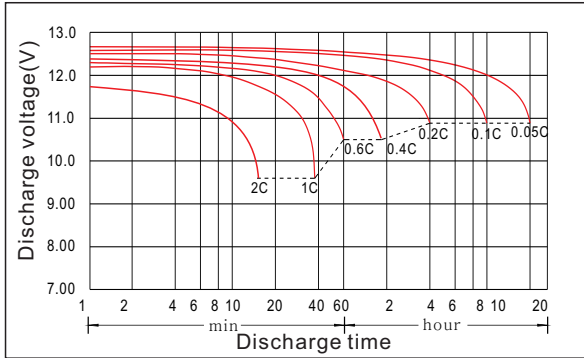
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 458 | 304 | 246 | 150 | 107 | 87.4 | 61.0 | 50.2 | 38.9 | 29.3 | 26.1 | 21.6 | 17.8 | 15.0 | 7.61 |
| 1.65V | 443 | 302 | 239 | 147 | 107 | 86.9 | 60.6 | 49.9 | 38.6 | 29.1 | 25.9 | 21.5 | 17.6 | 14.9 | 7.58 |
| 1.70V | 426 | 300 | 233 | 144 | 106 | 86.3 | 59.8 | 49.5 | 38.0 | 28.7 | 25.6 | 21.2 | 17.5 | 14.7 | 7.53 |
| 1.75V | 391 | 296 | 225 | 143 | 104 | 85.0 | 59.4 | 48.8 | 37.5 | 28.5 | 25.3 | 21.0 | 17.3 | 14.6 | 7.50 |
| 1.80V | 350 | 288 | 211 | 137 | 102 | 82.8 | 58.6 | 47.9 | 35.4 | 28.1 | 24.7 | 20.8 | 17.3 | 14.4 | 7.47 |
| 1.85V | 313 | 267 | 187 | 125 | 94 | 76.7 | 56.9 | 45.4 | 35.2 | 27.3 | 23.5 | 20.2 | 16.5 | 14.0 | 7.30 |

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

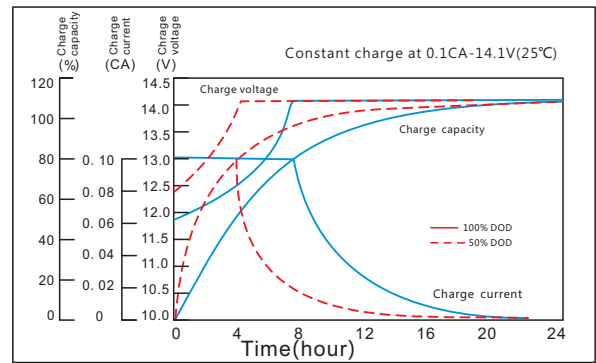
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|
| 1.60V | 772 | 518 | 435 | 271 | 199 | 166 | 122 | 94.8 | 74.1 | 57.7 | 49.5 | 42.3 | 34.6 | 28.9 | 15.1 |
| 1.65V | 742 | 513 | 428 | 268 | 197 | 165 | 120 | 94.5 | 73.2 | 57.1 | 49.2 | 41.8 | 34.3 | 28.5 | 15.0 |
| 1.70V | 737 | 509 | 422 | 268 | 196 | 163 | 119 | 94.2 | 72.7 | 56.4 | 48.9 | 41.4 | 34.1 | 28.2 | 14.9 |
| 1.75V | 686 | 504 | 419 | 267 | 194 | 162 | 118 | 93.6 | 72.2 | 56.1 | 48.6 | 41.1 | 34.0 | 28.2 | 14.9 |
| 1.80V | 630 | 500 | 396 | 260 | 192 | 160 | 117 | 93.3 | 72.1 | 55.4 | 48.0 | 40.7 | 33.7 | 27.7 | 14.8 |
| 1.85V | 558 | 464 | 351 | 238 | 178 | 149 | 115 | 89.1 | 68.5 | 54.5 | 45.8 | 40.0 | 32.5 | 27.2 | 14.6 |

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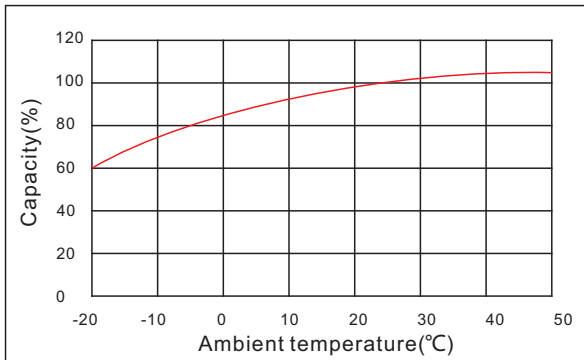
Discharge characteristic



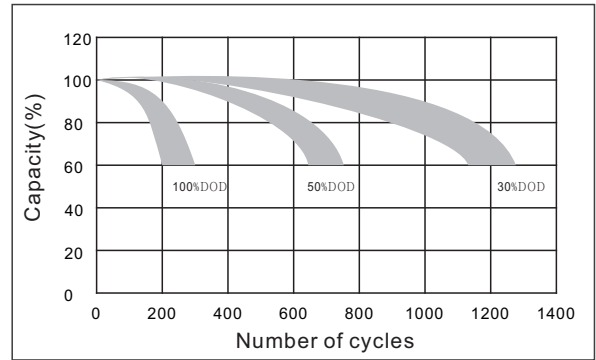
Charging characteristic



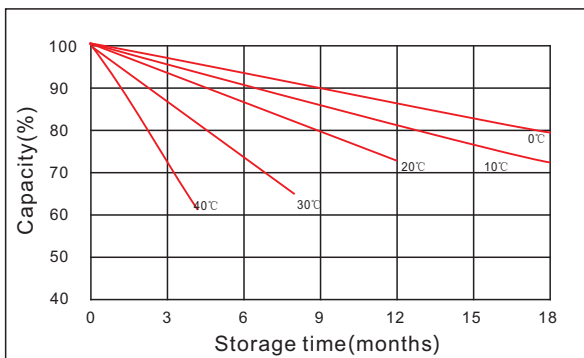
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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.

