# JDG Series AGM-GEL battery

## JDG12-100

### 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

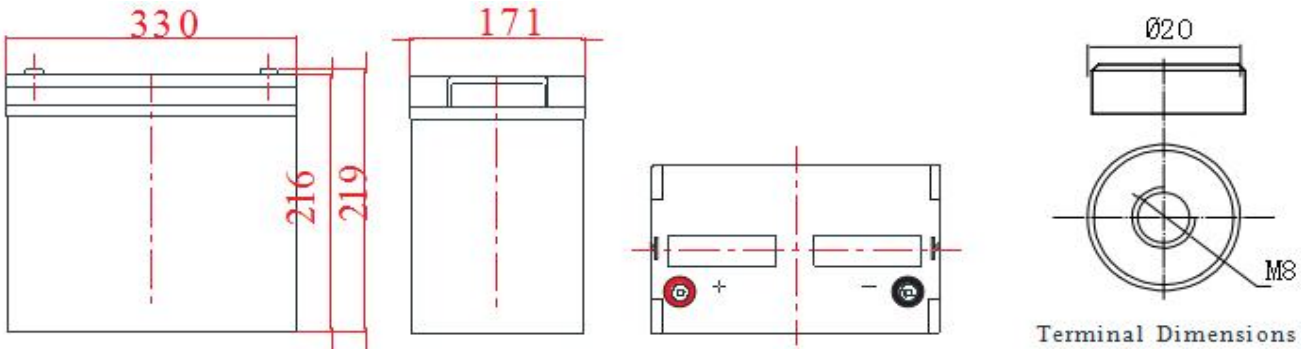
▶Long cycle life, excellent deep cycle discharge ability

▶Excellent charge acceptance ability

▶Precision sealing technology

▶Long life


**Dimension:330(L)×171(W) ×216(H)×219(TH)** **Unit: mm**




| Specification | |
|---|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 100Ah |
| Design life | 10 years |
| Terminal | M8 |
| Approx. Weight | Approx29.5kg (65.0lbs) |
| Container Material | ABS |
| short-circuit current | 2307A |
| Internal resistance(Full charged at 25°C: ) | 5.2 mΩ |
| Self discharge | 3% of capacity declined per month at 25°C |
| **Operating Temperature** | |
| Discharge: | -20 ~50℃(-4~ 122°F) |
| Charge : | -20 ~50℃(-4~ 122°F) |
| Storage: | -20 ~50℃(-4~ 122°F) |
| **Charge Method(25 °C)** | |
| Charge current: | Max. 25A;Recom.10A |
| 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) |

### Standards

Executive standard YD/T 799-2010

### Applications

▶UPS/EPS

▶Power systems

▶Telecommunications system

▶Emergency lighting、Auto control system

▶Solar/wind generating storage cyclic

▶Other general purpose

### Rated Capacity

| | |
|---|---|
| 10Hour Rate (10.0A to 10.8V) | 100Ah |
| 3Hour Rate (27.3A to 10.2V) | 81.9Ah |
| 1Hour Rate (67.3A to 9.6V) | 67.3Ah |

### Attain Certificate

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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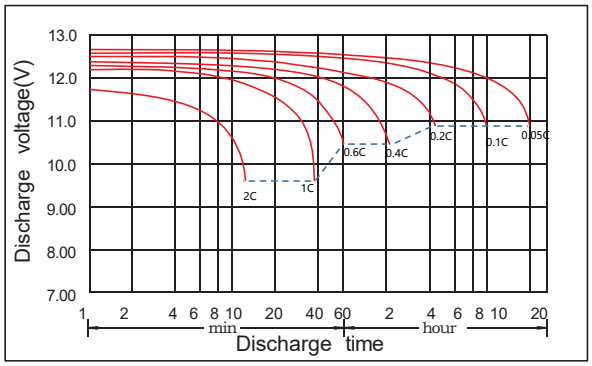
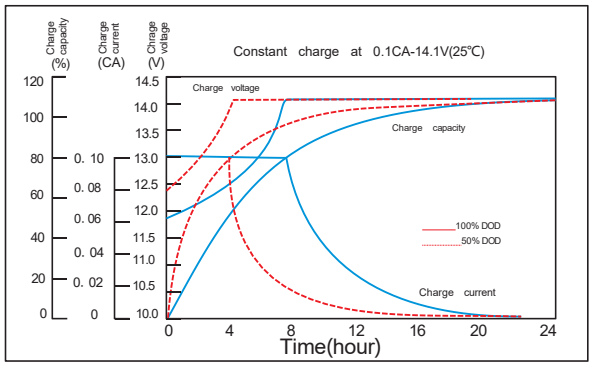
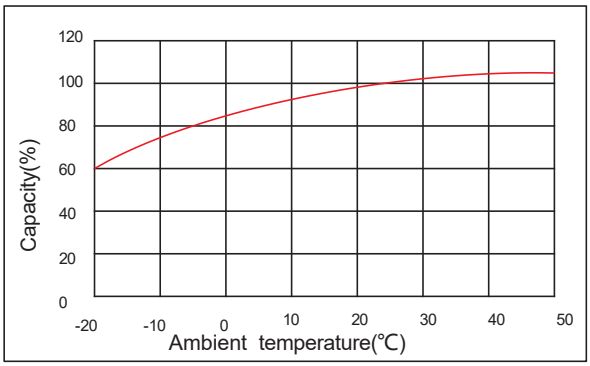
## Discharge characteristic



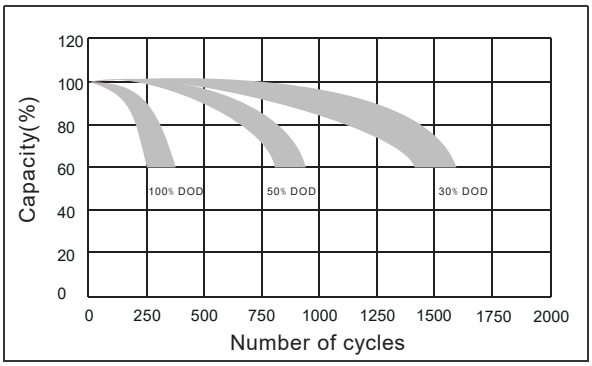

## Charging characteristic




## The effect of temperature on capacity




## The effect of discharge depth on cycle life




## Constant Current Discharge Characteristics Unit:A (25℃,77℉)

| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 285 | 231 | 177 | 114 | 82.6 | 67.3 | 42.3 | 38.6 | 28.0 | 20.3 | 18.8 | 15.0 | 12.4 | 10.4 | 5.46 |
| 1.65V | 277 | 224 | 172 | 112 | 82.1 | 66.9 | 41.9 | 38.4 | 27.7 | 20.1 | 18.6 | 14.8 | 12.3 | 10.3 | 5.43 |
| 1.70V | 265 | 217 | 168 | 111 | 81.5 | 66.4 | 41.5 | 38.1 | 27.3 | 19.9 | 18.4 | 14.7 | 12.2 | 10.2 | 5.40 |
| 1.75V | 244 | 204 | 163 | 110 | 80.3 | 65.5 | 41.1 | 37.5 | 27.0 | 19.7 | 18.2 | 14.6 | 12.1 | 10.1 | 5.38 |
| 1.80V | 219 | 185 | 152 | 104 | 78.3 | 63.8 | 40.7 | 36.8 | 26.9 | 19.5 | 17.7 | 14.4 | 12.0 | 10.0 | 5.35 |
| 1.85V | 195 | 165 | 135 | 95.5 | 72.5 | 59.1 | 39.4 | 35.0 | 25.3 | 18.9 | 16.9 | 14.0 | 11.5 | 9.70 | 5.26 |

## Constant Power Discharge Characteristics Unit: W/cell (25℃ ,77℉ )

| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 478 | 391 | 312 | 207 | 152 | 127 | 84.4 | 73.0 | 53.3 | 40.0 | 35.7 | 29.3 | 24.0 | 20.0 | 10.9 |
| 1.65V | 460 | 379 | 307 | 205 | 151 | 126 | 83.6 | 72.8 | 52.6 | 39.6 | 35.5 | 29.0 | 23.8 | 19.9 | 10.8 |
| 1.70V | 457 | 366 | 303 | 205 | 150 | 125 | 82.7 | 72.5 | 52.3 | 39.2 | 35.2 | 28.7 | 23.7 | 19.6 | 10.8 |
| 1.75V | 426 | 346 | 301 | 204 | 149 | 124 | 81.9 | 72.1 | 52.0 | 38.8 | 35.0 | 28.5 | 23.5 | 19.4 | 10.7 |
| 1.80V | 392 | 320 | 284 | 200 | 148 | 123 | 81.0 | 71.9 | 51.8 | 38.4 | 34.6 | 28.2 | 23.3 | 19.2 | 10.6 |
| 1.85V | 349 | 288 | 255 | 183 | 138 | 115 | 79.8 | 68.7 | 49.3 | 37.8 | 33.0 | 27.7 | 22.5 | 18.9 | 10.5 |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