

## JM12-100

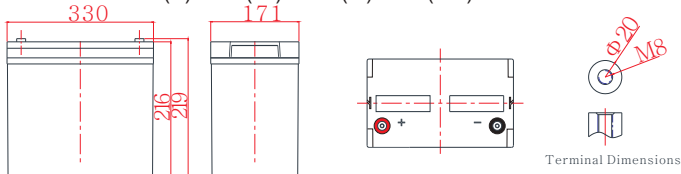


### General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life



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



### Applications

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

### Specification

|                        |  |
|------------------------|--|
| Nominal Voltage        | 12V  |
| Nominal Capacity       | 100Ah  |
| Design life            | 10 years   |
| Terminal               | M8   |
| Approx. Weight         | Approx 29.5kg (65.0lbs)                              |
| Container Material     | ABS  |
| Rated Capacity         | 100Ah → 10Hour Rate (10.0A to 10.8V)                 |
|                        | 80.7Ah → 3Hour Rate (26.9A to 10.8V)                 |
|                        | 65.5Ah → 1Hour Rate (65.5A to 10.5V)                 |
| Internal resistance    | Full charged at 25°C: 5.0 mΩ                         |
| Max. Discharge Current | 1200A(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. 25A ; Recom. 10A                                |
| 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)

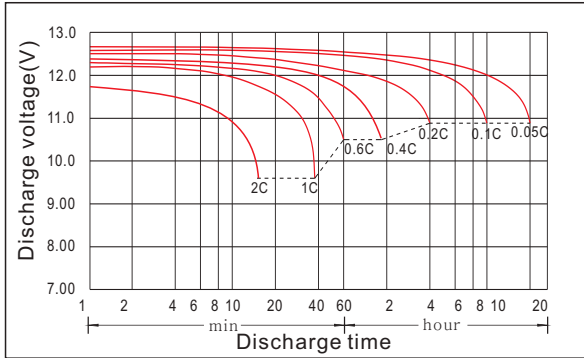
| FV/Time | 5min | 15min | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|------|------|------|------|------|------|------|
| 1.60V   | 352  | 189   | 115   | 67.3 | 38.6 | 28.0 | 18.8 | 12.4 | 10.4 | 5.46 |
| 1.65V   | 342  | 184   | 113   | 66.9 | 38.4 | 27.7 | 18.6 | 12.3 | 10.3 | 5.43 |
| 1.70V   | 328  | 180   | 111   | 66.4 | 38.1 | 27.3 | 18.4 | 12.2 | 10.2 | 5.40 |
| 1.75V   | 302  | 174   | 110   | 65.5 | 37.5 | 27.0 | 18.2 | 12.1 | 10.1 | 5.38 |
| 1.80V   | 270  | 162   | 105   | 63.8 | 36.8 | 26.9 | 17.7 | 12.0 | 10.0 | 5.35 |
| 1.85V   | 241  | 144   | 96.2  | 59.1 | 35.0 | 25.3 | 16.9 | 11.5 | 9.70 | 5.26 |

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

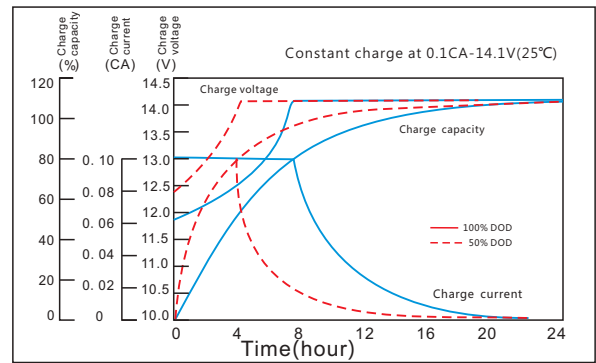
| FV/Time | 5min | 15min | 30min | 1h  | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-----|------|------|------|------|------|------|
| 1.60V   | 591  | 333   | 208   | 127 | 73.0 | 53.3 | 35.7 | 24.0 | 20.0 | 10.8 |
| 1.65V   | 568  | 328   | 206   | 126 | 72.8 | 52.6 | 35.5 | 23.8 | 19.8 | 10.8 |
| 1.70V   | 565  | 324   | 206   | 125 | 72.5 | 52.3 | 35.2 | 23.7 | 19.6 | 10.7 |
| 1.75V   | 527  | 322   | 205   | 124 | 72.1 | 52.0 | 35.0 | 23.5 | 19.4 | 10.7 |
| 1.80V   | 484  | 304   | 201   | 123 | 71.9 | 51.8 | 34.6 | 23.3 | 19.2 | 10.6 |
| 1.85V   | 432  | 272   | 184   | 115 | 68.7 | 49.3 | 33.0 | 22.5 | 18.9 | 10.5 |

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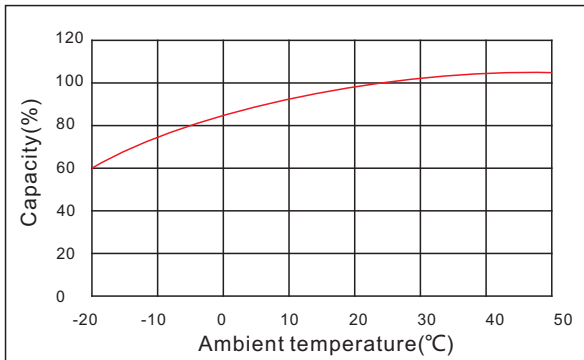
**Discharge characteristic**



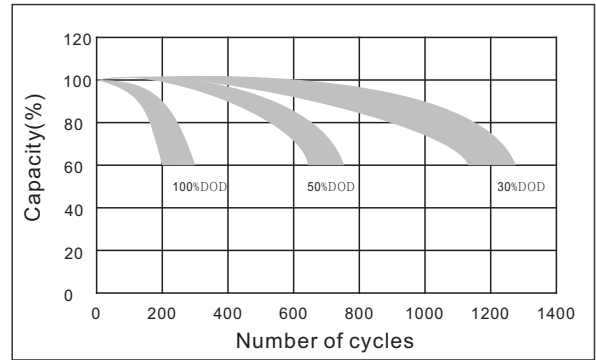
**Charging characteristic**



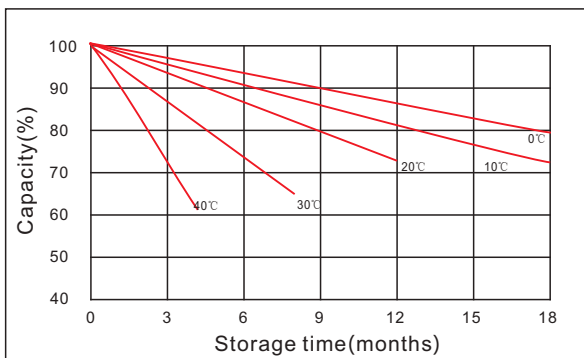
**The effect of temperature on capacity**



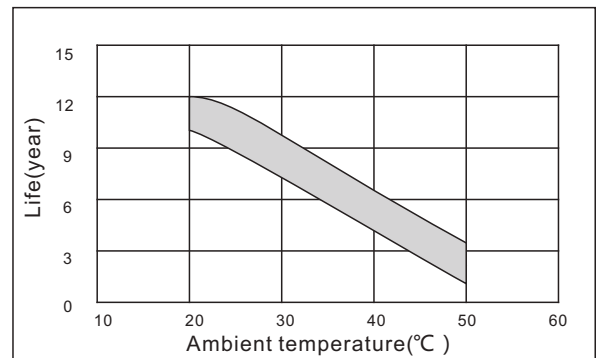
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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