

## JM12-50



### Applications

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

### Specification

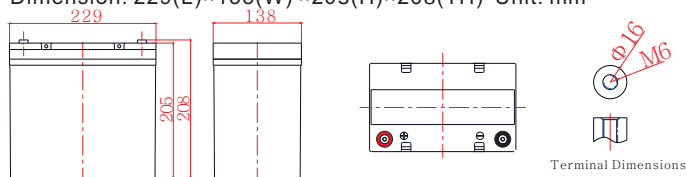
|                        |                                                   |
|------------------------|---------------------------------------------------|
| Nominal Voltage        | 12V                                               |
| Nominal Capacity       | 50Ah                                              |
| Design life            | 10 years                                          |
| Terminal               | M6                                                |
| Approx. Weight         | Approx 15.5kg (34.2lbs)                           |
| Container Material     | ABS                                               |
| Rated Capacity         | 50.0Ah 10Hour Rate (5.00A to 10.8V)               |
|                        | 40.5Ah 3Hour Rate (13.5A to 10.8V)                |
|                        | 32.7Ah 1Hour Rate (32.7A to 10.5V)                |
| Internal resistance    | Full charged at 25°C: 11.8 mΩ                     |
| Max. Discharge Current | 540A(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. 11.3A ; Recom.4.5A                           |
| 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         |

### 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: 229(L)×138(W)×205(H)×208(TH) Unit: mm



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

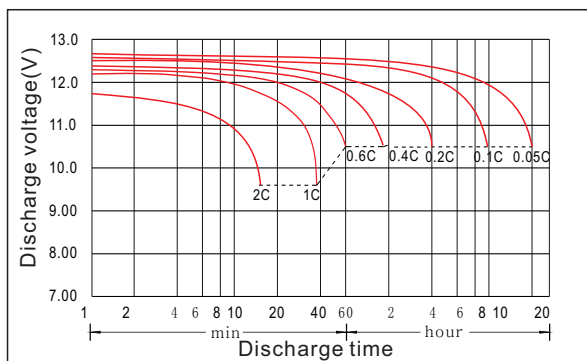
| FV/Time | 5min | 15min | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|------|------|------|------|------|------|------|
| 1.60V   | 176  | 94.5  | 57.5  | 33.6 | 19.3 | 14.0 | 9.36 | 6.17 | 5.20 | 2.73 |
| 1.65V   | 171  | 91.8  | 56.6  | 33.5 | 19.2 | 13.9 | 9.27 | 6.13 | 5.15 | 2.72 |
| 1.70V   | 164  | 89.8  | 55.6  | 33.2 | 19.1 | 13.6 | 9.18 | 6.07 | 5.10 | 2.70 |
| 1.75V   | 151  | 86.9  | 55.1  | 32.7 | 18.7 | 13.5 | 9.09 | 6.03 | 5.05 | 2.69 |
| 1.80V   | 135  | 81.0  | 52.7  | 31.9 | 18.5 | 13.5 | 8.87 | 5.98 | 5.00 | 2.67 |
| 1.85V   | 121  | 72.2  | 48.1  | 29.5 | 17.5 | 12.6 | 8.43 | 5.73 | 4.85 | 2.63 |

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

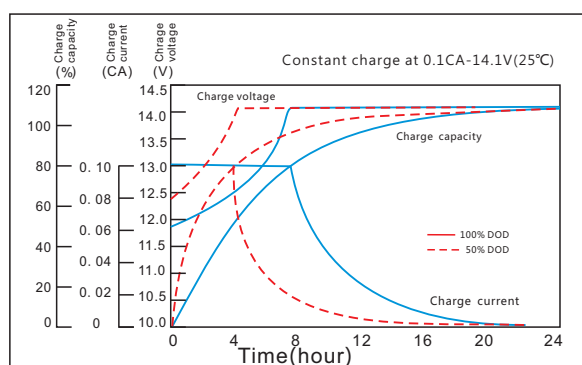
| FV/Time | 5min | 15min | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|------|------|------|------|------|------|------|
| 1.60V   | 295  | 166   | 105   | 63.6 | 36.5 | 26.6 | 17.8 | 12.0 | 10.0 | 5.40 |
| 1.65V   | 285  | 164   | 104   | 63.2 | 36.4 | 26.3 | 17.7 | 11.9 | 9.91 | 5.37 |
| 1.70V   | 283  | 162   | 104   | 62.6 | 36.3 | 26.2 | 17.6 | 11.8 | 9.82 | 5.35 |
| 1.75V   | 264  | 161   | 103   | 62.2 | 36.1 | 26.0 | 17.5 | 11.7 | 9.73 | 5.33 |
| 1.80V   | 242  | 152   | 100   | 61.7 | 36.0 | 25.9 | 17.3 | 11.6 | 9.64 | 5.30 |
| 1.85V   | 216  | 136   | 91.8  | 57.3 | 34.4 | 24.6 | 16.5 | 11.3 | 9.45 | 5.25 |

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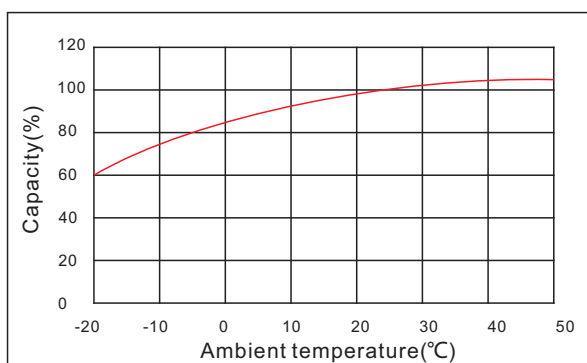
### Discharge characteristic



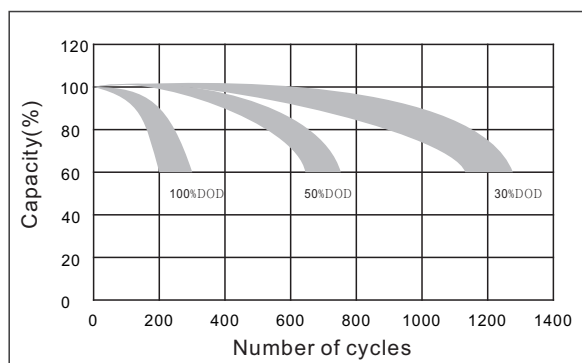
### Charging characteristic



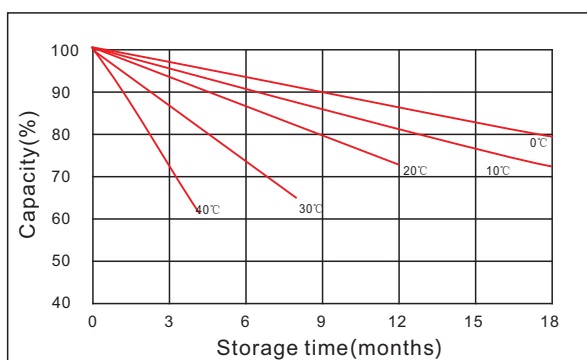
### The effect of temperature on capacity



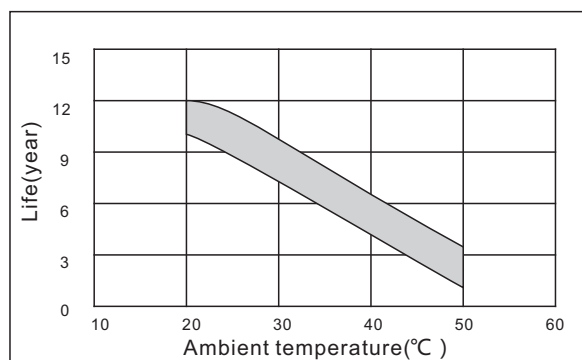
### The effect of discharge depth on cycle life



### Curves of self-discharge



### The effect of temperature on float life



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