

## JM12-120

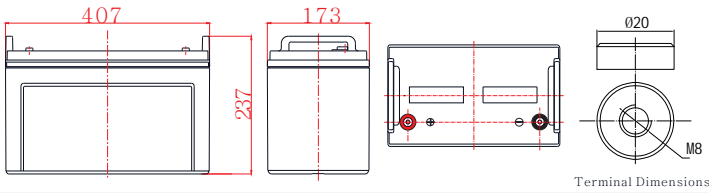


### General Features

- 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: 407(L) × 173(W) × 237(H) × 237(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       | 120Ah                                                 |
| Design life            | 10 years                                              |
| Terminal               | M8                                                    |
| Approx. Weight         | Approx 35.0kg (77.16lbs)                              |
| Container Material     | ABS                                                   |
| Rated Capacity         | <b>120Ah</b> 10Hour Rate (12.0A to 10.8V)             |
|                        | <b>94.5Ah</b> 3Hour Rate (31.5A to 10.2V)             |
|                        | <b>74.9Ah</b> 1Hour Rate (74.9A to 9.6V)              |
| Internal resistance    | Full charged at 25°C: 4.5 mΩ                          |
| Max. Discharge Current | 1440A(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. 30A ; Recom. 12A                                 |
| 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)

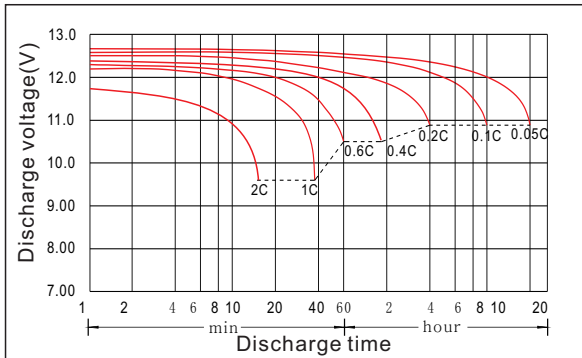
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 423  | 265   | 204   | 122   | 91.9  | 74.9 | 50.0 | 44.2 | 31.9 | 25.5 | 21.7 | 17.7 | 14.9 | 12.3 | 6.53 |
| 1.65V   | 410  | 257   | 199   | 119   | 90.4  | 73.7 | 50.0 | 44.0 | 31.7 | 25.4 | 21.6 | 17.7 | 14.8 | 12.3 | 6.52 |
| 1.70V   | 394  | 245   | 192   | 116   | 88.2  | 71.9 | 50.0 | 43.6 | 31.5 | 25.1 | 21.5 | 17.7 | 14.7 | 12.3 | 6.50 |
| 1.75V   | 362  | 235   | 185   | 113   | 85.5  | 69.7 | 49.6 | 43.0 | 31.3 | 24.9 | 21.3 | 17.6 | 14.6 | 12.2 | 6.46 |
| 1.80V   | 324  | 222   | 175   | 109   | 82.7  | 67.4 | 49.2 | 41.9 | 30.3 | 24.2 | 20.7 | 17.3 | 14.2 | 12.0 | 6.42 |
| 1.85V   | 288  | 206   | 156   | 99.4  | 76.6  | 62.4 | 47.9 | 39.8 | 28.5 | 23.5 | 19.6 | 16.8 | 13.6 | 11.8 | 6.30 |

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

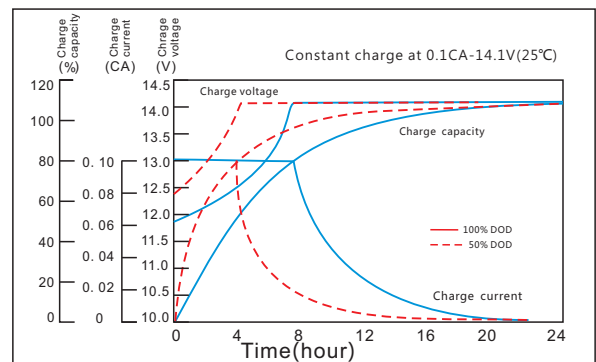
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h  | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|
| 1.60V   | 709  | 476   | 373   | 228   | 170   | 142 | 104  | 85.5 | 62.5 | 50.0 | 42.9 | 36.1 | 29.6 | 24.6 | 13.1 |
| 1.65V   | 682  | 461   | 364   | 223   | 168   | 140 | 104  | 85.0 | 62.1 | 49.7 | 42.6 | 36.1 | 29.5 | 24.6 | 13.0 |
| 1.70V   | 678  | 442   | 350   | 216   | 164   | 137 | 103  | 84.2 | 61.8 | 49.3 | 42.3 | 35.8 | 29.3 | 24.4 | 13.0 |
| 1.75V   | 633  | 423   | 338   | 211   | 158   | 132 | 102  | 83.0 | 61.3 | 49.0 | 42.1 | 35.5 | 29.0 | 24.2 | 12.9 |
| 1.80V   | 581  | 399   | 321   | 203   | 154   | 128 | 102  | 68.7 | 59.4 | 47.5 | 40.7 | 35.3 | 28.1 | 24.1 | 12.8 |
| 1.85V   | 519  | 370   | 287   | 186   | 142   | 119 | 100  | 65.5 | 56.4 | 46.8 | 38.9 | 34.9 | 27.1 | 23.8 | 12.7 |

# JM12-120

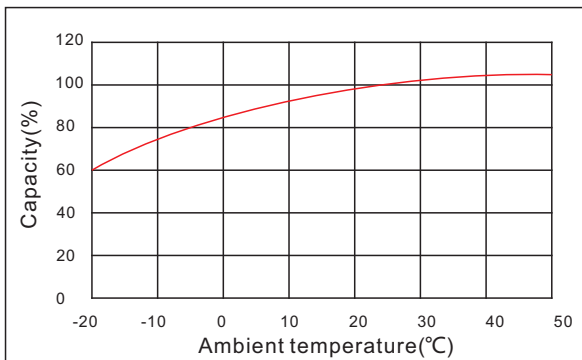
**Discharge characteristic**



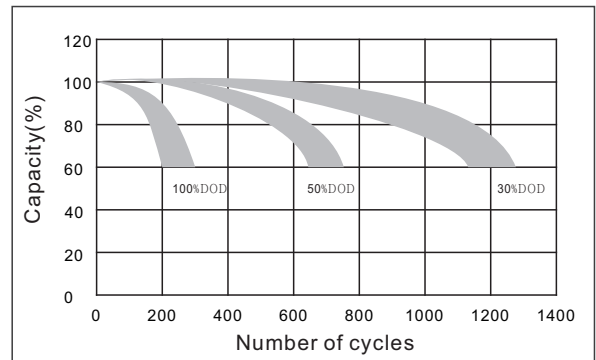
**Charging characteristic**



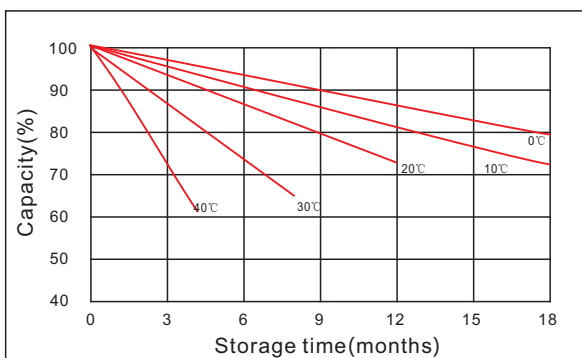
**The effect of temperature on capacity**



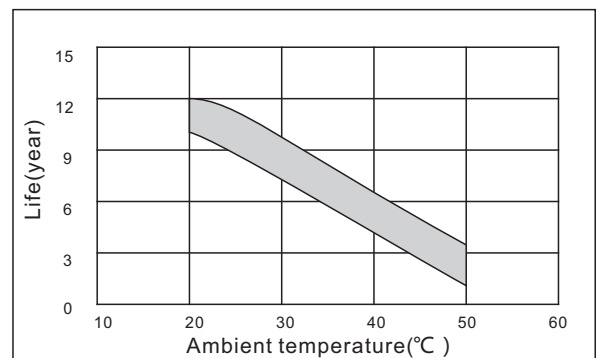
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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