

## JM12-120

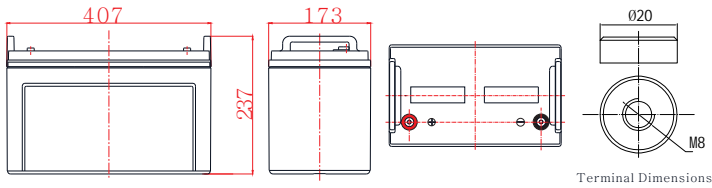


### General Features

- 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 33.5kg (73.9lbs)                              |
| Container Material     | ABS  |
| Rated Capacity         | <b>120Ah</b> 20Hour Rate (6.0A to 10.5V)             |
|                        | <b>89.7Ah</b> 3Hour Rate (29.9A to 10.2V)            |
|                        | <b>71.0Ah</b> 1Hour Rate (71.0A to 9.6V)             |
| Internal resistance    | Full charged at 25°C: 5.2 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. 30.0A ; Recom. 12.0A                            |
| 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)

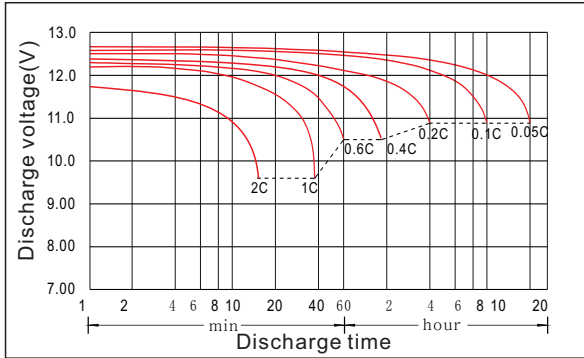
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 400  | 246   | 192   | 115   | 87.1  | 71.0 | 46.4 | 41.9 | 30.2 | 23.7 | 20.4 | 16.4 | 14.1 | 11.4 | 6.06 |
| 1.65V   | 387  | 239   | 187   | 112   | 85.7  | 69.9 | 46.4 | 41.7 | 30.1 | 23.6 | 20.3 | 16.4 | 14.0 | 11.4 | 6.06 |
| 1.70V   | 372  | 228   | 181   | 109   | 83.5  | 68.1 | 46.4 | 41.3 | 29.9 | 23.3 | 20.2 | 16.4 | 13.9 | 11.4 | 6.04 |
| 1.75V   | 342  | 218   | 174   | 106   | 81.1  | 66.1 | 46.0 | 40.7 | 29.7 | 23.1 | 20.0 | 16.3 | 13.8 | 11.3 | 6.00 |
| 1.80V   | 301  | 206   | 163   | 101   | 76.8  | 62.6 | 45.5 | 38.9 | 28.1 | 22.5 | 19.2 | 16.1 | 13.2 | 11.2 | 5.96 |
| 1.85V   | 268  | 191   | 145   | 92.1  | 71.1  | 58.0 | 44.3 | 36.9 | 28.0 | 21.9 | 18.2 | 15.7 | 12.7 | 10.9 | 5.85 |

### 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   | 670  | 442   | 351   | 215   | 162   | 135 | 96.2 | 81.0 | 59.3 | 46.4 | 39.9 | 33.4 | 27.9 | 22.8 | 12.2 |
| 1.65V   | 644  | 428   | 343   | 210   | 160   | 133 | 96.2 | 80.5 | 58.9 | 46.2 | 39.7 | 33.4 | 27.9 | 22.8 | 12.1 |
| 1.70V   | 640  | 411   | 330   | 203   | 156   | 130 | 95.8 | 79.8 | 58.6 | 45.8 | 39.4 | 33.3 | 27.7 | 22.7 | 12.1 |
| 1.75V   | 598  | 393   | 318   | 199   | 150   | 125 | 95.0 | 78.6 | 58.1 | 45.5 | 39.1 | 33.0 | 27.4 | 22.5 | 12.0 |
| 1.80V   | 540  | 371   | 298   | 189   | 143   | 119 | 94.5 | 73.1 | 53.2 | 44.1 | 37.9 | 32.9 | 26.1 | 22.4 | 11.9 |
| 1.85V   | 482  | 344   | 266   | 173   | 132   | 110 | 93.2 | 69.7 | 52.4 | 43.5 | 36.2 | 32.4 | 25.2 | 22.1 | 11.8 |

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Discharge characteristic



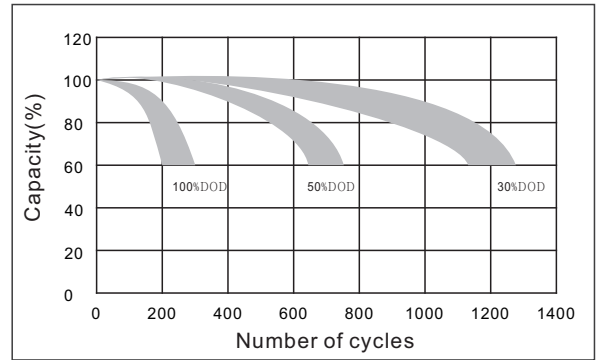
Charging characteristic



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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