



### Applications

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

### Specification

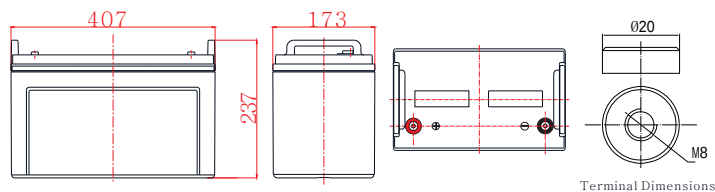
|                        |                                                   |
|------------------------|---------------------------------------------------|
| Nominal Voltage        | 12V                                               |
| Nominal Capacity       | 80Ah                                              |
| Design life            | 10 years                                          |
| Terminal               | M8                                                |
| Approx. Weight         | Approx 25.0kg (55.1lbs)                           |
| Container Material     | ABS                                               |
| Rated Capacity         | 80.0Ah 10Hour Rate (8.00A to 10.8V)               |
|                        | 65.7Ah 3Hour Rate (21.9A to 10.2V)                |
|                        | 53.9Ah 1Hour Rate (53.9A to 9.6V)                 |
| Internal resistance    | Full charged at 25°C: 6.6 mΩ                      |
| Max. Discharge Current | 960A(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. 20.0A ; Recom.8.0A                           |
| 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         |

### 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



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

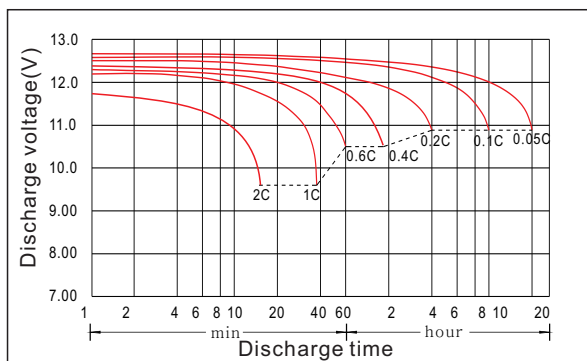
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 282  | 188   | 151   | 92.1  | 66.1  | 53.9 | 33.8 | 30.9 | 22.4 | 16.2 | 15.1 | 12.0 | 9.88 | 8.32 | 4.37 |
| 1.65V   | 273  | 186   | 147   | 90.6  | 65.6  | 53.5 | 33.5 | 30.7 | 22.2 | 16.1 | 14.9 | 11.9 | 9.80 | 8.24 | 4.34 |
| 1.70V   | 262  | 185   | 144   | 89.0  | 65.3  | 53.2 | 33.2 | 30.5 | 21.9 | 15.9 | 14.7 | 11.8 | 9.72 | 8.16 | 4.32 |
| 1.75V   | 241  | 182   | 139   | 88.2  | 64.3  | 52.4 | 32.9 | 30.0 | 21.6 | 15.8 | 14.6 | 11.6 | 9.64 | 8.08 | 4.30 |
| 1.80V   | 216  | 177   | 130   | 84.4  | 62.6  | 51.0 | 32.5 | 29.5 | 21.5 | 15.6 | 14.2 | 11.5 | 9.56 | 8.00 | 4.28 |
| 1.85V   | 193  | 165   | 116   | 77.0  | 58.0  | 47.3 | 31.6 | 28.0 | 20.2 | 15.1 | 13.5 | 11.2 | 9.17 | 7.76 | 4.21 |

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

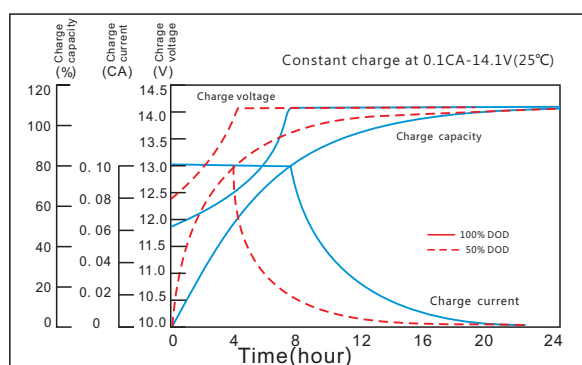
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 473  | 318   | 267   | 167   | 122   | 102  | 67.5 | 58.4 | 42.6 | 32.0 | 28.5 | 23.5 | 19.2 | 16.0 | 8.64 |
| 1.65V   | 455  | 315   | 262   | 165   | 121   | 101  | 66.7 | 58.3 | 42.1 | 31.6 | 28.4 | 23.2 | 19.0 | 15.8 | 8.60 |
| 1.70V   | 452  | 312   | 259   | 165   | 120   | 100  | 66.3 | 58.0 | 41.9 | 31.4 | 28.1 | 23.0 | 19.0 | 15.7 | 8.56 |
| 1.75V   | 422  | 310   | 257   | 164   | 119   | 100  | 65.4 | 57.7 | 41.6 | 31.0 | 28.0 | 22.7 | 18.8 | 15.5 | 8.52 |
| 1.80V   | 387  | 308   | 243   | 160   | 118   | 98.7 | 65.0 | 57.5 | 41.5 | 30.8 | 27.7 | 22.6 | 18.7 | 15.4 | 8.48 |
| 1.85V   | 346  | 286   | 217   | 147   | 110   | 91.6 | 63.7 | 55.0 | 39.4 | 30.2 | 26.4 | 22.1 | 18.0 | 15.1 | 8.40 |

## JM12-80

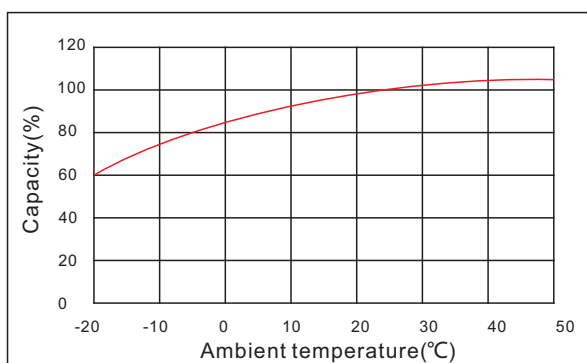
### Discharge characteristic



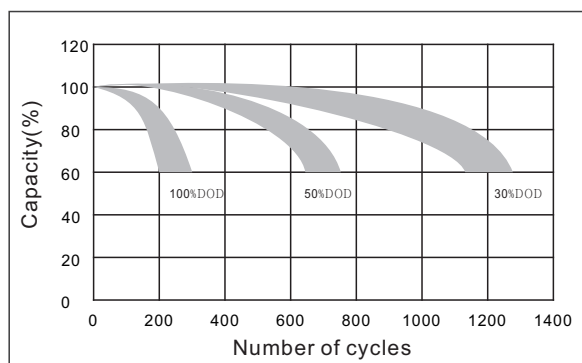
### Charging characteristic



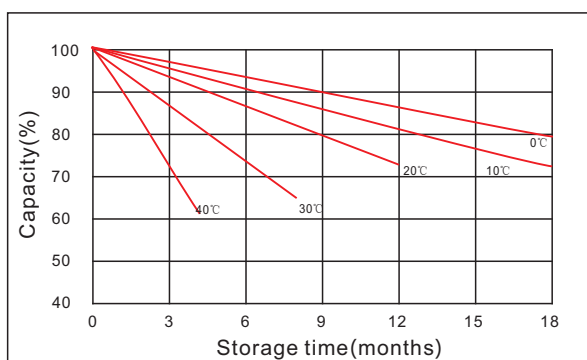
### The effect of temperature on capacity



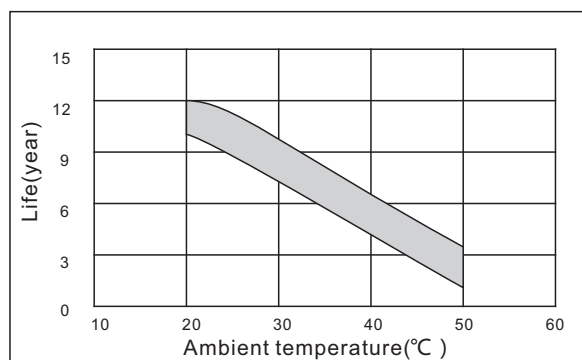
### The effect of discharge depth on cycle life



### Curves of self-discharge



### The effect of temperature on float life



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