



### Applications

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

### General Features

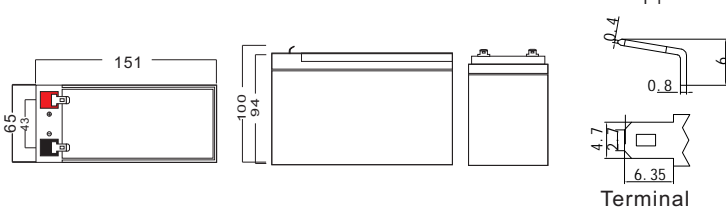
- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance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

### Specification

|                        |                                                   |
|------------------------|---------------------------------------------------|
| Nominal Voltage        | 12V                                               |
| Nominal Capacity       | 9.0Ah                                             |
| Design life            | 5 years                                           |
| Terminal               | F1/F2                                             |
| Approx. Weight         | Approx 2.53kg (5.58lbs)                           |
| Container Material     | ABS                                               |
| Rated Capacity         | <b>9.00Ah</b> 20Hour Rate (0.45A to 10.5V)        |
|                        | <b>7.11Ah</b> 3Hour Rate (2.37A to 10.2V)         |
|                        | <b>6.77Ah</b> 1Hour Rate (6.77A to 9.60V)         |
| Internal resistance    | Full charged at 25°C: 20.0 mΩ                     |
| Max. Discharge Current | 135A(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. 2.25A ; Recom.0.90A                          |
| 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         |



Dimension: 151(L)×65(W)×94(H)×100(TH) Unit: mm



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

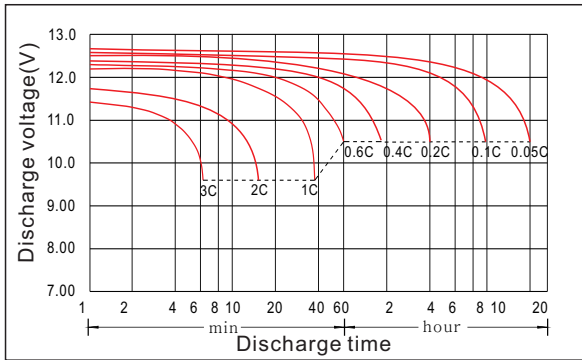
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h    | 10h   | 20h   |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.60V   | 37.2 | 25.2  | 21.0  | 10.2  | 8.30  | 6.77 | 3.62 | 3.40 | 2.52 | 1.99 | 1.69 | 1.28 | 1.12  | 0.890 | 0.477 |
| 1.65V   | 34.0 | 23.9  | 19.2  | 10.1  | 7.70  | 6.28 | 3.55 | 3.27 | 2.41 | 1.93 | 1.66 | 1.26 | 1.10  | 0.872 | 0.468 |
| 1.70V   | 30.9 | 22.7  | 17.8  | 9.90  | 7.56  | 6.16 | 3.50 | 3.20 | 2.37 | 1.83 | 1.63 | 1.24 | 1.08  | 0.861 | 0.459 |
| 1.75V   | 28.2 | 21.6  | 16.6  | 9.80  | 7.29  | 5.94 | 3.41 | 3.12 | 2.33 | 1.80 | 1.56 | 1.21 | 1.05  | 0.838 | 0.450 |
| 1.80V   | 25.0 | 20.5  | 15.5  | 9.60  | 7.03  | 5.73 | 3.37 | 3.04 | 2.21 | 1.76 | 1.50 | 1.19 | 1.03  | 0.828 | 0.432 |
| 1.85V   | 22.3 | 19.0  | 13.8  | 8.80  | 6.51  | 5.31 | 3.27 | 2.89 | 2.08 | 1.71 | 1.43 | 1.16 | 0.987 | 0.803 | 0.425 |

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

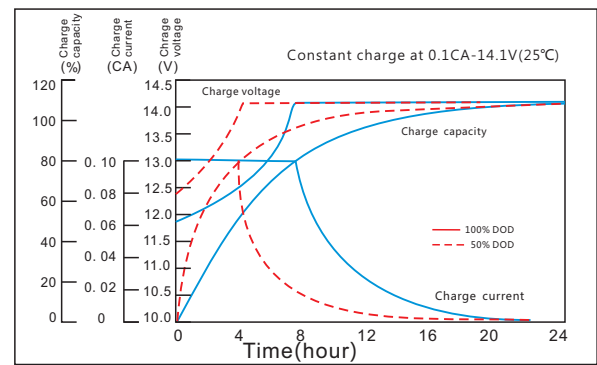
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h   |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1.60V   | 66.9 | 45.4  | 38.0  | 18.6  | 13.0  | 10.8 | 7.26 | 6.23 | 4.63 | 3.68 | 3.16 | 2.52 | 2.11 | 1.72 | 0.945 |
| 1.65V   | 62.0 | 43.4  | 35.1  | 18.5  | 12.1  | 10.1 | 7.13 | 6.05 | 4.48 | 3.63 | 3.14 | 2.48 | 2.08 | 1.69 | 0.920 |
| 1.70V   | 56.4 | 41.7  | 33.0  | 18.4  | 11.9  | 9.90 | 7.09 | 6.02 | 4.46 | 3.47 | 3.10 | 2.46 | 2.05 | 1.68 | 0.912 |
| 1.75V   | 52.2 | 40.0  | 31.0  | 18.3  | 11.6  | 9.70 | 6.92 | 5.91 | 4.43 | 3.44 | 2.99 | 2.41 | 2.03 | 1.64 | 0.898 |
| 1.80V   | 46.8 | 38.6  | 29.1  | 18.1  | 11.4  | 9.50 | 6.88 | 5.78 | 4.24 | 3.39 | 2.91 | 2.39 | 2.01 | 1.63 | 0.887 |
| 1.85V   | 41.8 | 36.1  | 26.0  | 16.6  | 10.7  | 8.88 | 6.77 | 5.52 | 4.04 | 3.34 | 2.78 | 2.35 | 1.92 | 1.60 | 0.879 |

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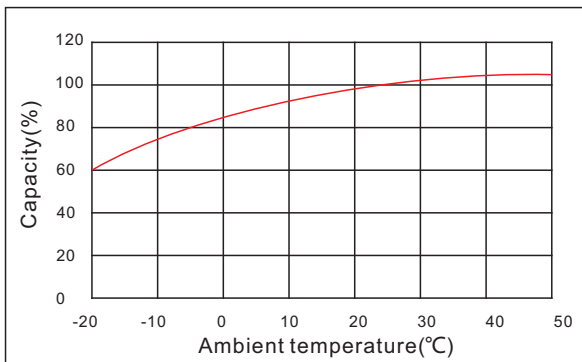
Discharge characteristic



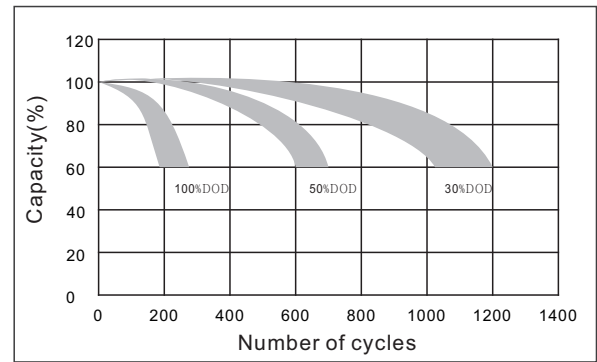
Charging characteristic



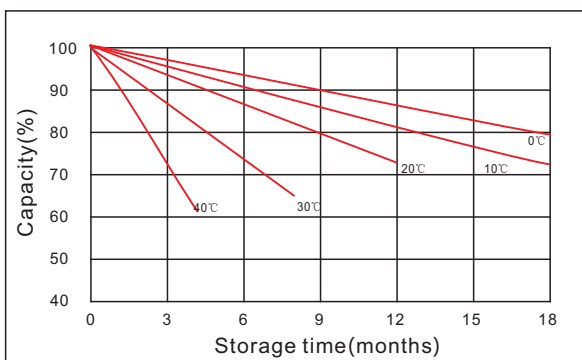
The effect of temperature on capacity



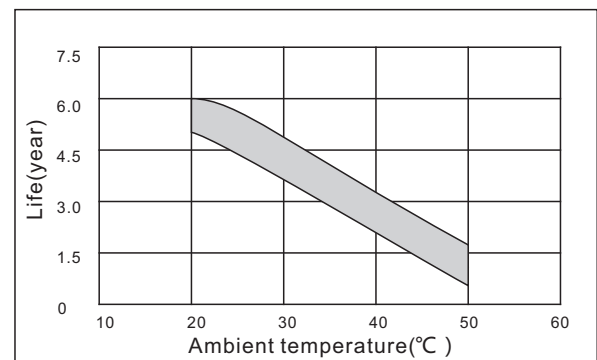
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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