

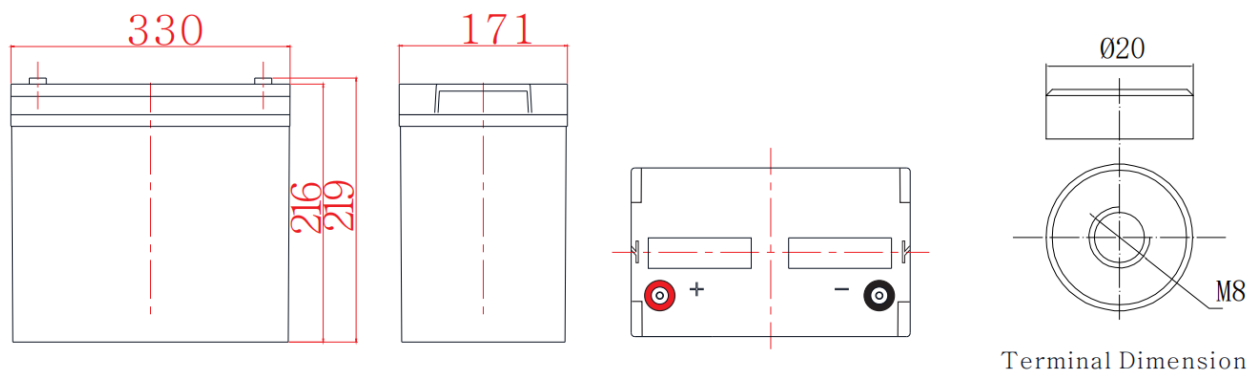
## General Features

- 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:330(L)×171(W) ×216(H)×219(TH)/(±3)

Unit: mm



Terminal Dimensions

## Specification

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Nominal Voltage                             | 12V                                       |
| Nominal Capacity                            | 80Ah@10hour-rate to 1.80V per cell @25°C  |
| Design life                                 | 10 years                                  |
| Terminal                                    | M8                                        |
| Approx. Weight                              | Approx25.0kg±3% (55.1±3%lbs)              |
| Container Material                          | ABS (UL94-HB, UL94-V0 Optional)           |
| short-circuit current                       | 1818A                                     |
| Internal resistance(Full charged at 25°C: ) | 6.6 mΩ                                    |
| Self discharge                              | 3% of capacity declined per month at 25°C |

## Operating Temperature

|            |                      |
|------------|----------------------|
| Discharge: | -20 ~50°C(-4~ 122°F) |
| Charge :   | -20 ~50°C(-4~ 122°F) |
| Storage:   | -20 ~50°C(-4~ 122°F) |

## Charge Method(25 °C)

|                            |                        |
|----------------------------|------------------------|
| Charge current:            | Max. 20.0A;Recom.8.0A  |
| 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) |

## Standards

Executive standard: IEC 60896-21/22,  
GB/T 19638.1-2014

## Applications

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

## Rated Capacity

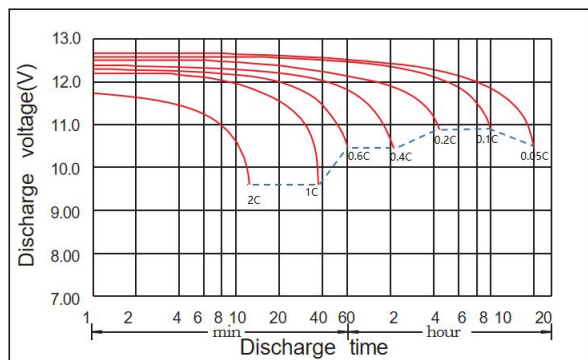
|                              |        |
|------------------------------|--------|
| 10Hour Rate (8.00A to 10.8V) | 80.0Ah |
| 3Hour Rate (21.3A to 10.2V)  | 63.9Ah |
| 1Hour Rate (50.8A to 9.6V)   | 51.0Ah |

## Attain Certificate

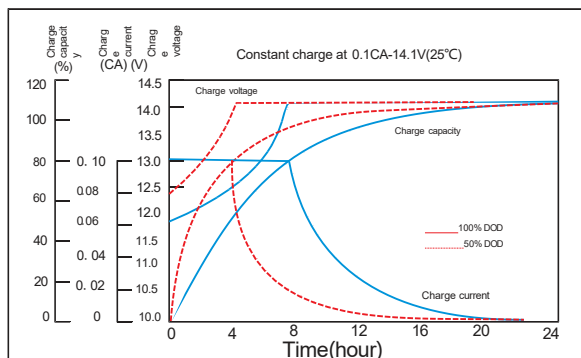
|                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                                                                                                                | <b>RoHS</b> |
|      |             |

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

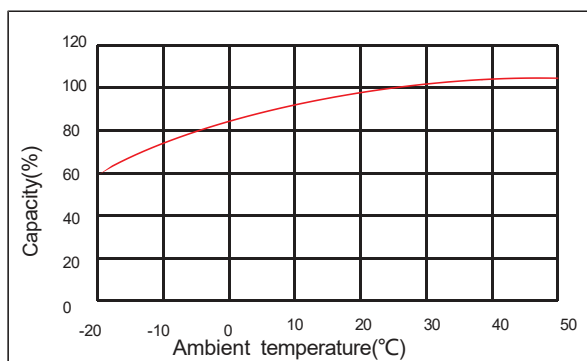
## Discharge characteristic



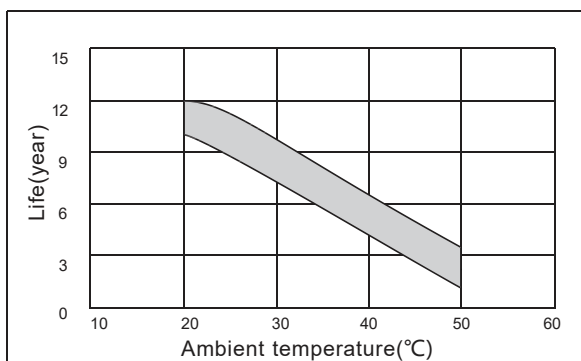
## Charging characteristic



## The effect of temperature on capacity



## The effect of temperature on float life



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

| FV/Time | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 149.8 | 88.5  | 64.5  | 50.8 | 37.6 | 30.0 | 22.6 | 18.2 | 15.5 | 13.1 | 10.1 | 8.44 | 4.41 |
| 1 65V   | 143.9 | 84.9  | 61.9  | 48.9 | 36.5 | 29.3 | 21.9 | 17.6 | 15.1 | 13.0 | 10.0 | 8.34 | 4.34 |
| 1.70V   | 134.8 | 81.2  | 59.1  | 46.8 | 35.0 | 28.1 | 21.3 | 17.2 | 14.7 | 12.7 | 9.87 | 8.21 | 4.30 |
| 1.75V   | 125.4 | 76.8  | 56.5  | 45.3 | 33.6 | 27.1 | 20.6 | 16.8 | 14.3 | 12.4 | 9.74 | 8.10 | 4.28 |
| 1 80V   | 118.2 | 74.7  | 54.5  | 43.4 | 32.0 | 26.3 | 20.4 | 16.3 | 13.9 | 12.0 | 9.57 | 8.00 | 4.24 |
| 1.85V   | 98.0  | 63.2  | 47.6  | 38.1 | 28.9 | 23.2 | 17.9 | 14.8 | 12.7 | 10.9 | 8.99 | 7.38 | 4.07 |

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

| FV/Time | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 263.2 | 160.7 | 117.3 | 93.1 | 69.6 | 55.2 | 42.6 | 34.0 | 29.1 | 25.2 | 19.8 | 16.6 | 8.69 |
| 1 65V   | 255.4 | 155.9 | 113.5 | 90.5 | 67.8 | 54.3 | 41.9 | 33.2 | 28.4 | 25.0 | 19.6 | 16.4 | 8.57 |
| 1.70V   | 242.7 | 150.5 | 112.2 | 88.1 | 66.8 | 52.5 | 40.2 | 32.5 | 27.8 | 24.5 | 19.4 | 16.2 | 8.47 |
| 1.75V   | 229.2 | 145.3 | 107.5 | 86.2 | 65.0 | 51.1 | 39.9 | 31.8 | 27.2 | 23.9 | 19.1 | 16.0 | 8.44 |
| 1 80V   | 216.7 | 140.3 | 103.5 | 82.7 | 61.6 | 50.3 | 38.8 | 31.4 | 26.6 | 23.5 | 18.9 | 15.8 | 8.39 |
| 1.85V   | 180.6 | 122.1 | 91.9  | 73.9 | 57.2 | 46.0 | 34.9 | 28.9 | 24.9 | 21.5 | 17.7 | 14.9 | 7.90 |