



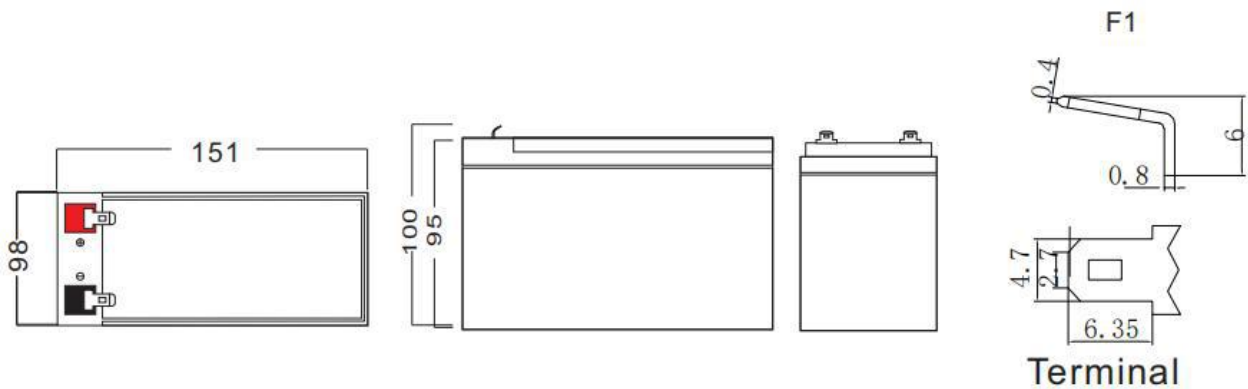
General Features

- ▶ 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



Dimension: 151(L) × 98(W) × 95(H) × 100(TH)

Unit: mm



| Specification | |
|---|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 10.0Ah |
| Design life | 5 years |
| Terminal | F1/F2 |
| Approx. Weight | Approx 3.10kg (6.83lbs) |
| Container Material | ABS |
| short-circuit current | 400A |
| Internal resistance(Full charged at 25°C:) | 30.0 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. 2.50A;Recom.1.00A |
| 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 GB/T 19639.1-2014

Applications

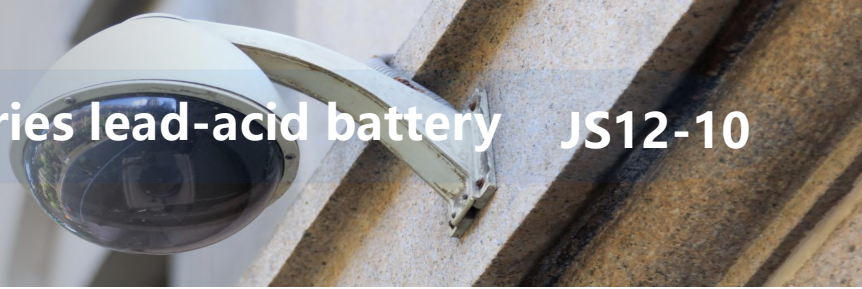
- ▶ UPS/EPS
- ▶ Power systems
- ▶ Telecommunications system
- ▶ Emergency lighting, Auto control system
- ▶ Solar/wind generating storage cyclic
- ▶ Other general purpose

Rated Capacity

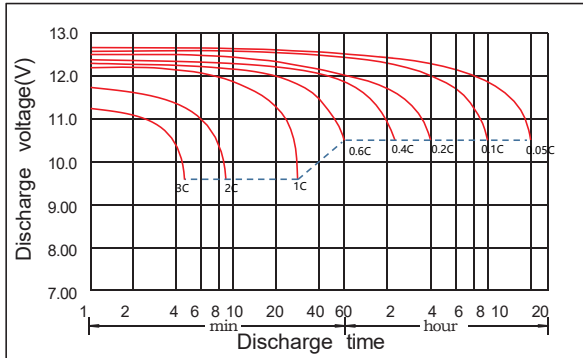
| | |
|------------------------------|--------|
| 20Hour Rate (0.50A to 10.5V) | 10.0Ah |
| 3Hour Rate (2.63A to 10.2V) | 7.89Ah |
| 1Hour Rate (6.60A to 9.6V) | 6.60Ah |

Attain Certificate

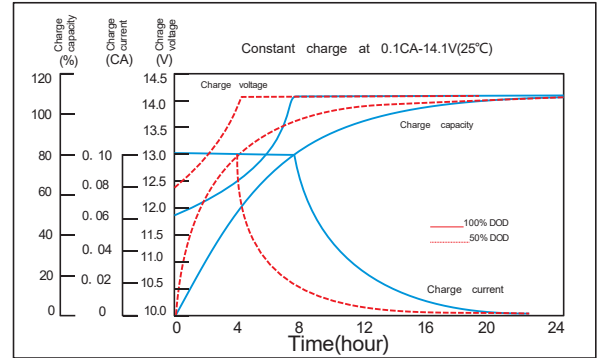




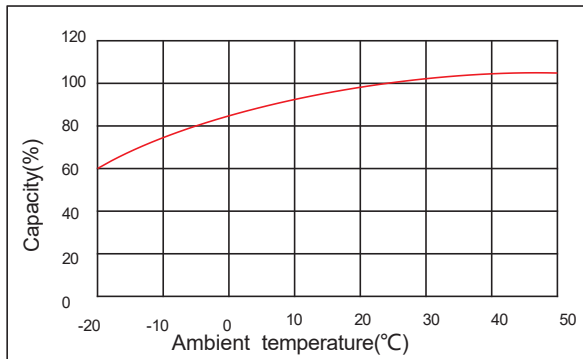
Discharge characteristic



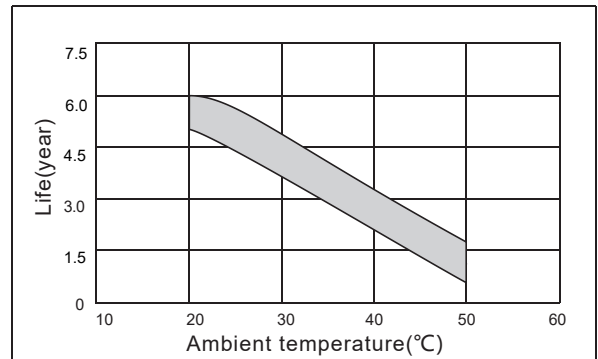
Charging characteristic



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 | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 1.60V | 39.6 | 25.9 | 19.3 | 12.7 | 8.10 | 6.60 | 4.04 | 3.78 | 2.76 | 2.21 | 1.88 | 1.43 | 1.24 | 0.993 | 0.532 |
| 1.65V | 39.3 | 24.8 | 17.7 | 12.0 | 7.61 | 6.20 | 3.99 | 3.63 | 2.68 | 2.14 | 1.84 | 1.41 | 1.22 | 0.981 | 0.523 |
| 1.70V | 32.2 | 23.3 | 16.5 | 11.6 | 7.36 | 6.00 | 3.92 | 3.56 | 2.63 | 2.03 | 1.82 | 1.39 | 1.20 | 0.965 | 0.512 |
| 1.75V | 29.9 | 22.2 | 15.4 | 11.4 | 7.10 | 5.79 | 3.83 | 3.47 | 2.59 | 2.00 | 1.74 | 1.36 | 1.17 | 0.942 | 0.500 |
| 1.80V | 27.5 | 20.9 | 14.3 | 11.0 | 6.86 | 5.59 | 3.75 | 3.38 | 2.45 | 1.96 | 1.67 | 1.33 | 1.14 | 0.921 | 0.484 |
| 1.85V | 24.6 | 19.4 | 12.7 | 10.1 | 6.35 | 5.18 | 3.63 | 3.21 | 2.30 | 1.90 | 1.59 | 1.29 | 1.09 | 0.893 | 0.476 |

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 | 74.3 | 46.7 | 35.3 | 21.4 | 14.5 | 12.1 | 8.10 | 7.08 | 5.22 | 4.18 | 3.55 | 2.82 | 2.34 | 1.92 | 1.05 |
| 1.65V | 68.5 | 44.2 | 33.2 | 21.2 | 13.7 | 11.4 | 7.93 | 6.82 | 5.07 | 4.05 | 3.48 | 2.76 | 2.31 | 1.88 | 1.02 |
| 1.70V | 62.7 | 42.8 | 31.7 | 21.2 | 13.2 | 11.0 | 7.89 | 6.68 | 4.98 | 3.85 | 3.38 | 2.74 | 2.28 | 1.87 | 1.01 |
| 1.75V | 56.8 | 41.5 | 30.5 | 20.9 | 12.8 | 10.7 | 7.68 | 6.53 | 4.92 | 3.80 | 3.32 | 2.67 | 2.19 | 1.82 | 0.992 |
| 1.80V | 51.0 | 40.2 | 29.2 | 20.8 | 12.7 | 10.6 | 7.55 | 6.48 | 4.78 | 3.77 | 3.23 | 2.63 | 2.12 | 1.79 | 0.985 |
| 1.85V | 45.5 | 37.6 | 29.2 | 19.0 | 11.9 | 9.91 | 7.44 | 6.19 | 4.55 | 3.71 | 3.08 | 2.58 | 2.03 | 1.76 | 0.976 |