

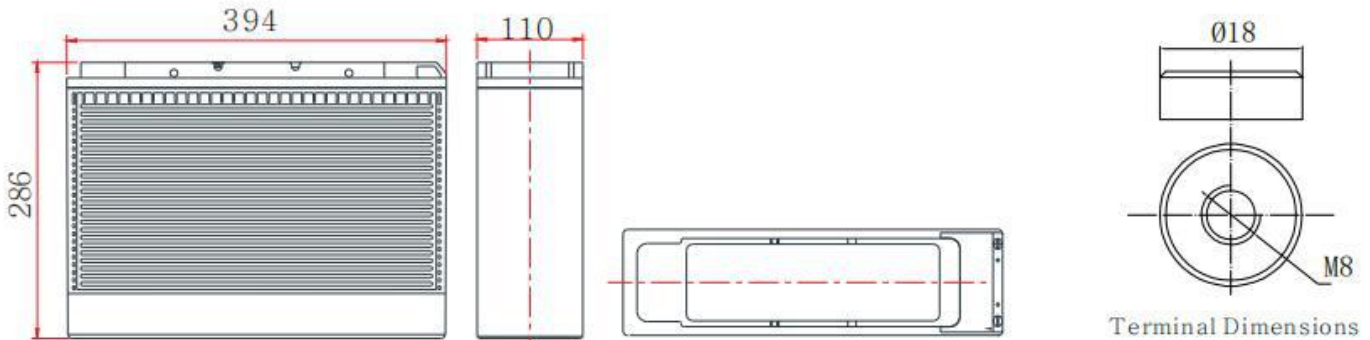
General Features

- ▶ Narrow structure and front terminal design, suitable for 19-inch and 23-inch standard cabinets
- ▶ High corrosion resistant performance: Pb-Ca multi-alloy grid
- ▶ Excellent charge acceptance ability
- ▶ Excellent deep cycle discharge capability
- ▶ Strong high and low temperature performance
- ▶ Precision sealing technology
- ▶ Long life



Dimension: 394(L) × 110(W) × 286(H) × 286(TH)

Unit: mm



| Specification | |
|---|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 110Ah |
| Design life | 12 years |
| Terminal | M8 |
| Approx. Weight | Approx 33.5kg (73.9lbs) |
| Container Material | ABS |
| short-circuit current | 1846A |
| Internal resistance(Full charged at 25°C:) | 6.5 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. 27.5A; Recom. 11.0A |
| 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 YD/T 799-2010

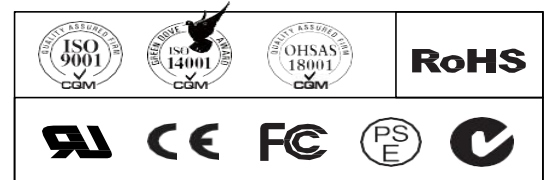
Applications

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

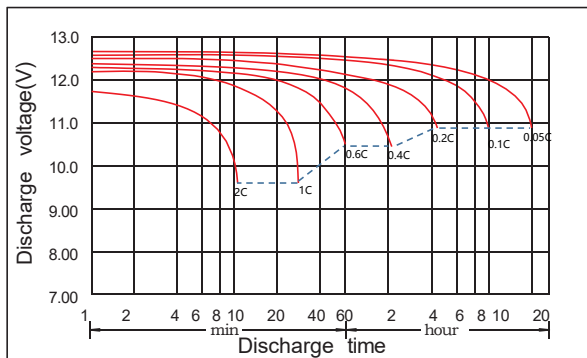
Rated Capacity

| | |
|------------------------------|---------|
| 10Hour Rate (11.0A to 10.8V) | 110.0Ah |
| 3Hour Rate (28.5A to 10.2V) | 85.5Ah |
| 1Hour Rate (70.1A to 9.6V) | 70.1Ah |

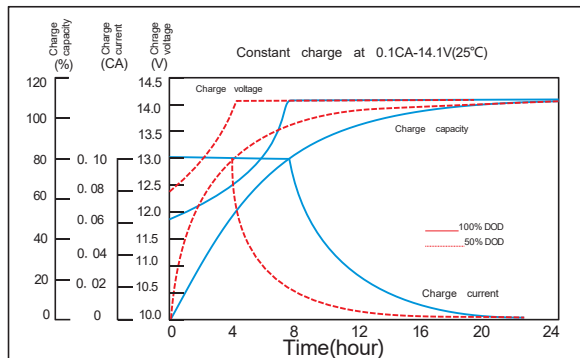
Attain Certificate



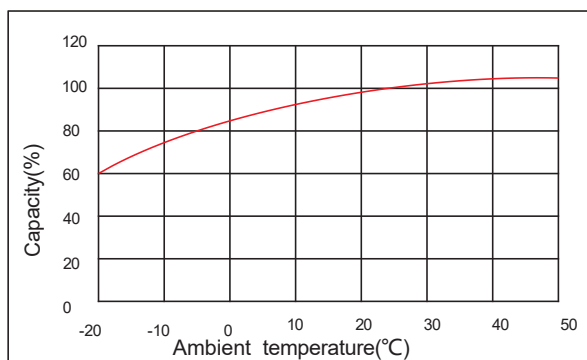
Discharge characteristic



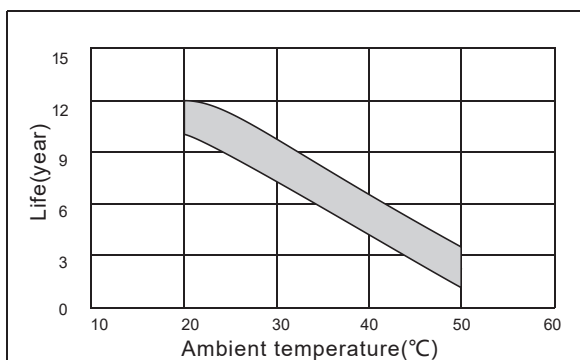
Charging characteristic



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 | 258 | 217 | 181 | 110 | 86.3 | 70.1 | 44.0 | 40.2 | 29.2 | 21.1 | 19.6 | 15.6 | 12.9 | 11.5 | 6.00 |
| 1.65V | 250 | 216 | 177 | 108 | 85.1 | 68.9 | 43.5 | 40.0 | 28.9 | 20.9 | 19.4 | 15.5 | 12.7 | 11.3 | 5.88 |
| 1.70V | 240 | 214 | 173 | 106 | 83.9 | 67.7 | 43.3 | 39.7 | 28.5 | 20.8 | 19.2 | 15.3 | 12.6 | 11.2 | 5.75 |
| 1.75V | 221 | 211 | 167 | 105 | 82.8 | 66.6 | 42.8 | 39.1 | 28.2 | 20.6 | 19.0 | 15.2 | 12.5 | 11.1 | 5.63 |
| 1.80V | 197 | 206 | 156 | 100 | 81.6 | 65.4 | 42.4 | 38.4 | 28.0 | 20.3 | 18.5 | 15.1 | 12.4 | 11.0 | 5.51 |
| 1.85V | 177 | 191 | 138 | 92.1 | 75.3 | 61.4 | 41.2 | 36.5 | 26.3 | 19.7 | 17.5 | 14.6 | 11.9 | 10.7 | 5.37 |

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 | 432 | 368 | 320 | 199 | 159 | 134 | 85.8 | 78.1 | 55.6 | 40.8 | 37.2 | 30.3 | 25.0 | 22.0 | 11.6 |
| 1.65V | 416 | 365 | 315 | 198 | 158 | 131 | 84.9 | 77.6 | 54.8 | 40.3 | 37.0 | 30.0 | 24.8 | 21.9 | 11.4 |
| 1.70V | 413 | 362 | 311 | 197 | 157 | 130 | 84.4 | 77.0 | 54.5 | 40.1 | 36.6 | 29.8 | 24.7 | 21.5 | 11.2 |
| 1.75V | 386 | 359 | 309 | 196 | 155 | 128 | 83.4 | 75.8 | 54.2 | 39.7 | 36.5 | 29.4 | 24.5 | 21.4 | 10.9 |
| 1.80V | 354 | 356 | 292 | 192 | 154 | 126 | 82.6 | 74.7 | 54.0 | 39.4 | 36.1 | 29.2 | 24.3 | 21.1 | 10.7 |
| 1.85V | 316 | 333 | 261 | 176 | 143 | 119 | 81.1 | 71.5 | 51.4 | 38.7 | 34.4 | 28.6 | 23.4 | 20.8 | 10.5 |