

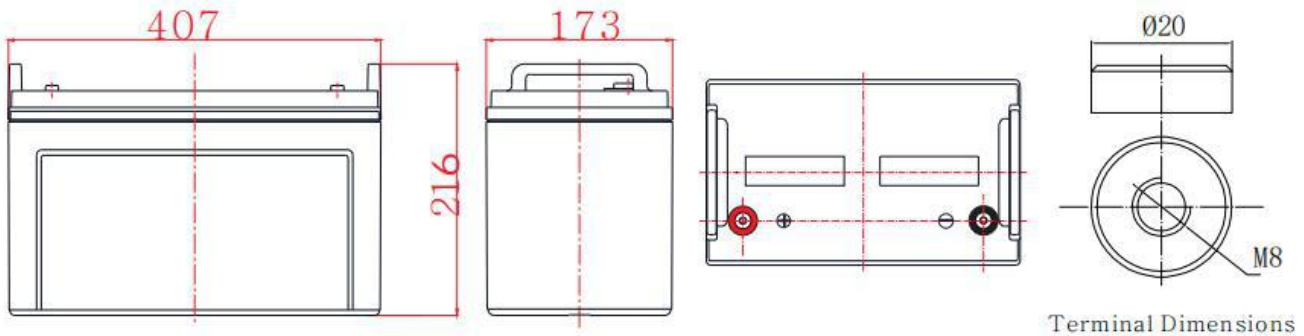
General Features

- ▶ 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) × 216(H) × 216(TH)

Unit: mm



Terminal Dimensions

| Specification | |
|---|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 120Ah |
| Design life | 10 years |
| Terminal | M8 |
| Approx. Weight | Approx 33.5kg (73.9lbs) |
| Container Material | ABS |
| short-circuit current | 2500A |
| Internal resistance(Full charged at 25°C:) | 4.8 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. 30.0A; Recom.12A |
| 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

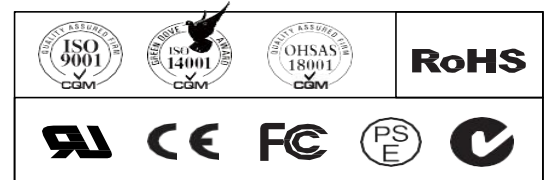
Applications

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

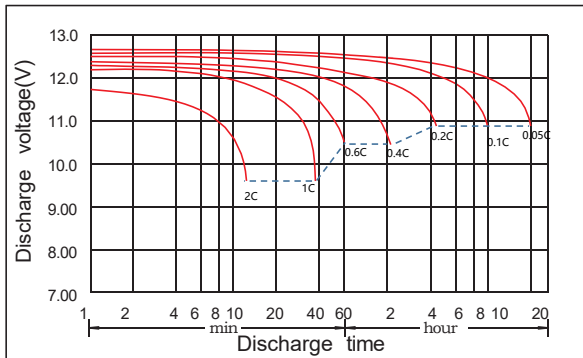
Rated Capacity

| | |
|------------------------------|---------|
| 20Hour Rate (6.00A to 10.5V) | 120.0Ah |
| 3Hour Rate (31.9A to 10.2V) | 95.7Ah |
| 1Hour Rate (73.8A to 9.6V) | 73.8Ah |

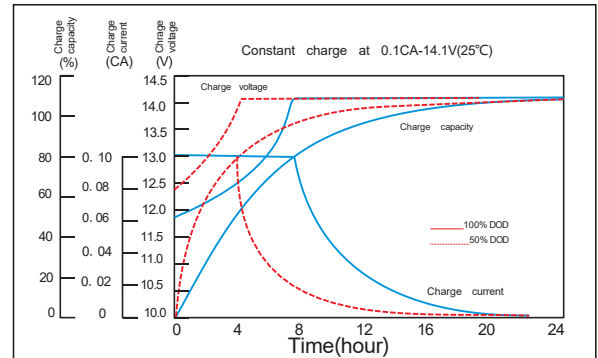
Attain Certificate



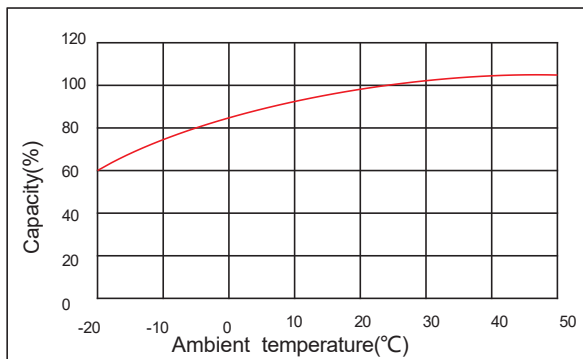
Discharge characteristic



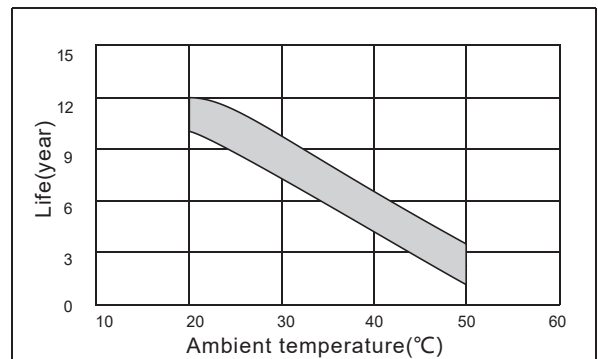
Charging characteristic



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 | 306 | 263 | 199 | 120 | 93.1 | 73.8 | 49.8 | 45.7 | 32.8 | 23.7 | 22.0 | 17.6 | 14.5 | 12.2 | 6.26 |
| 1.65V | 301 | 256 | 189 | 118 | 91.9 | 73.5 | 49.2 | 45.1 | 32.5 | 23.5 | 21.8 | 17.4 | 14.3 | 12.1 | 6.18 |
| 1.70V | 289 | 253 | 187 | 116 | 90.7 | 72.9 | 48.6 | 44.5 | 31.9 | 23.3 | 21.6 | 17.2 | 14.2 | 12.0 | 6.09 |
| 1.75V | 266 | 244 | 185 | 115 | 90.1 | 72.0 | 48.3 | 43.9 | 31.6 | 23.1 | 21.4 | 17.1 | 14.1 | 11.9 | 6.00 |
| 1.80V | 238 | 226 | 169 | 110 | 86.6 | 70.0 | 47.7 | 43.0 | 31.3 | 22.9 | 20.8 | 16.9 | 14.0 | 11.7 | 5.91 |
| 1.85V | 212 | 210 | 153 | 100 | 79.6 | 65.0 | 46.2 | 41.0 | 29.6 | 22.2 | 19.7 | 16.4 | 13.4 | 11.4 | 5.77 |

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 | 520 | 461 | 358 | 216 | 172 | 141 | 96.5 | 88.6 | 63.6 | 46.0 | 42.7 | 34.2 | 28.1 | 23.7 | 12.3 |
| 1.65V | 512 | 447 | 340 | 212 | 170 | 140 | 95.4 | 87.4 | 63.0 | 45.6 | 42.4 | 34.0 | 28.0 | 23.6 | 12.1 |
| 1.70V | 491 | 444 | 337 | 209 | 168 | 139 | 94.3 | 86.3 | 61.9 | 45.1 | 41.9 | 33.4 | 27.8 | 23.4 | 11.9 |
| 1.75V | 452 | 426 | 333 | 207 | 167 | 138 | 93.7 | 85.1 | 61.3 | 44.8 | 41.4 | 33.2 | 27.6 | 23.1 | 11.8 |
| 1.80V | 404 | 396 | 305 | 198 | 160 | 134 | 92.6 | 83.5 | 60.8 | 44.3 | 40.3 | 32.7 | 27.3 | 22.8 | 11.6 |
| 1.85V | 363 | 370 | 277 | 182 | 148 | 125 | 90.2 | 79.9 | 57.6 | 43.3 | 38.5 | 32.0 | 26.3 | 22.3 | 11.4 |