

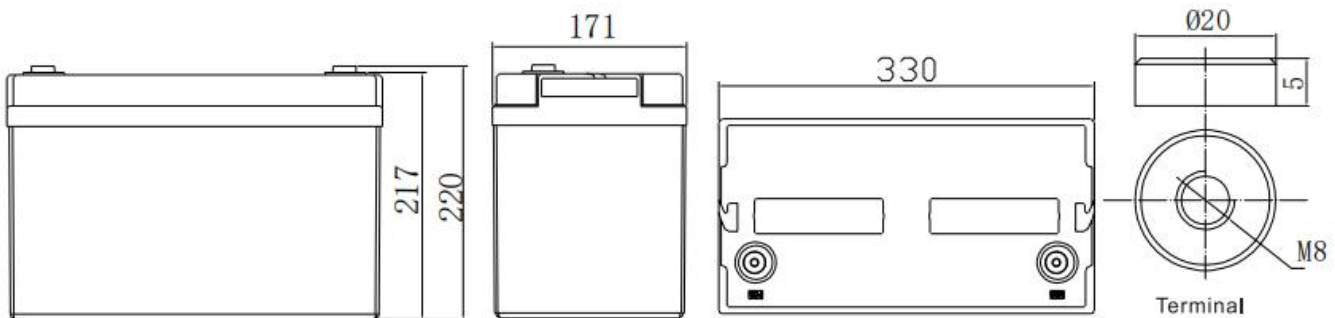
General Features

- ▶ 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) × 217(H) × 220(TH)

Unit: mm



| Specification | |
|---|--|
| Nominal Voltage | 12V |
| Nominal Capacity | 110Ah(410W@15min-rate to 1.67V percell@25°C) |
| Design life | 10 years |
| Terminal | M8 |
| Approx. Weight | Approx 32.0kg (70.5lbs) |
| Container Material | ABS(UL94-HB, UL94-V0 Optional) |
| short-circuit current | 3428A |
| Internal resistance(Full charged at 25°C:) | 3.5 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 3427-2018

Applications

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

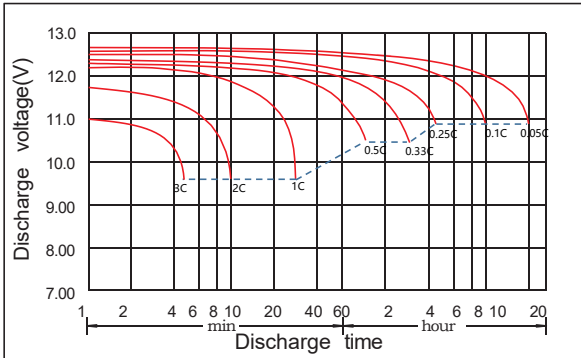
Rated Capacity

| | |
|------------------------------|---------|
| 20Hour Rate (5.50A to 10.5V) | 110.0Ah |
| 3Hour Rate (29.2A to 10.2V) | 87.6Ah |
| 1Hour Rate (73.5A to 10.5V) | 73.5Ah |

Attain Certificate



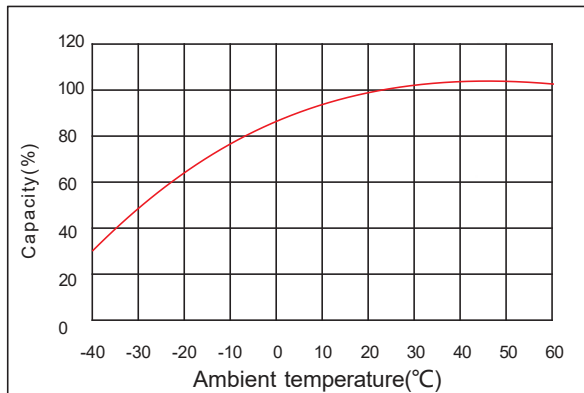
Discharge characteristic



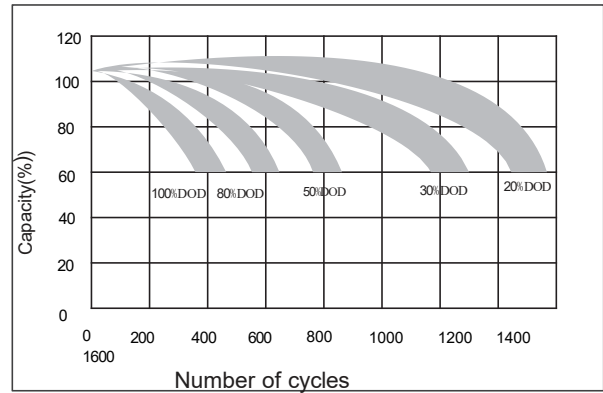
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle 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 | 429 | 325 | 221 | 139 | 83.1 | 75.6 | 53.8 | 35.5 | 30.6 | 26.9 | 22.8 | 17.7 | 15.1 | 12.3 | 5.65 |
| 1.67V | 376 | 287 | 210 | 138 | 82.4 | 74.8 | 51.8 | 35.2 | 29.7 | 26.0 | 22.4 | 17.4 | 14.8 | 12.0 | 5.60 |
| 1.70V | 351 | 270 | 208 | 136 | 81.6 | 74.1 | 50.6 | 34.9 | 29.2 | 24.7 | 22.1 | 17.1 | 14.6 | 11.7 | 5.55 |
| 1.75V | 314 | 245 | 206 | 134 | 80.9 | 73.5 | 49.6 | 34.6 | 28.7 | 24.3 | 21.2 | 16.7 | 14.2 | 11.5 | 5.50 |
| 1.80V | 279 | 221 | 188 | 132 | 80.2 | 72.3 | 47.3 | 34.2 | 27.2 | 23.7 | 20.2 | 16.3 | 13.6 | 11.2 | 5.45 |
| 1.85V | 246 | 198 | 170 | 125 | 78.1 | 71.2 | 43.4 | 33.3 | 23.3 | 20.4 | 17.3 | 14.0 | 11.9 | 9.55 | 5.30 |

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 | 686 | 520 | 432 | 272 | 163 | 149 | 106 | 69.9 | 60.2 | 52.9 | 44.9 | 34.8 | 29.9 | 24.3 | 11.2 |
| 1.67V | 628 | 479 | 410 | 270 | 162 | 147 | 102 | 69.3 | 58.5 | 51.3 | 44.1 | 34.3 | 29.4 | 23.8 | 11.1 |
| 1.70V | 597 | 459 | 405 | 267 | 160 | 146 | 100 | 68.8 | 57.5 | 48.6 | 43.6 | 33.8 | 28.9 | 23.2 | 11.0 |
| 1.75V | 550 | 428 | 402 | 263 | 159 | 145 | 97.7 | 68.2 | 56.6 | 47.8 | 41.7 | 33.0 | 28.1 | 22.7 | 10.9 |
| 1.80V | 503 | 398 | 367 | 259 | 157 | 142 | 93.1 | 67.4 | 53.6 | 46.8 | 39.9 | 32.2 | 27.0 | 22.2 | 10.8 |
| 1.85V | 456 | 367 | 334 | 246 | 154 | 141 | 86.0 | 65.9 | 46.1 | 40.3 | 34.2 | 27.8 | 23.6 | 19.0 | 10.6 |