

JH12-320W

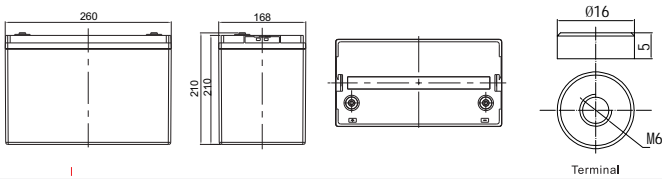


General Features

- 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: 260(L)×168(W)×210(H)×210(TH) Unit: mm



Applications

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

Specification

| | |
|------------------------|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 85Ah (320W@15min-rate to 1.67V per cell @25°C) |
| Design life | 10years |
| Terminal | M6 |
| Approx. Weight | Approx 25.0kg (55.1lbs) |
| Container Material | ABS (UL94-HB, UL94-V0 Optional) |
| Rated Capacity | 85.0Ah 10Hour Rate (8.50A to 10.8V) |
| | 69.9Ah 3Hour Rate (23.3A to 10.2V) |
| | 50.0Ah 1Hour Rate (50.0A to 9.6V) |
| Internal resistance | Full charged at 25°C: 4.50 mΩ |
| Max. Discharge Current | 850A(5S) |
| Operating Temperature | Discharge: -20 ~50°C (-4 ~ 122°F) |
| | Charge: -20 ~50°C (-4 ~ 122°F) |
| | Storage: -20 ~50°C (-4 ~ 122°F) |
| Charge current: | Max. 21.25A ; Recom.8.5A |
| Charge Method (25 °C) | Float charge:13.7-13.9V,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) |
| Self discharge | 3% of capacity declined per month at 25°C |

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

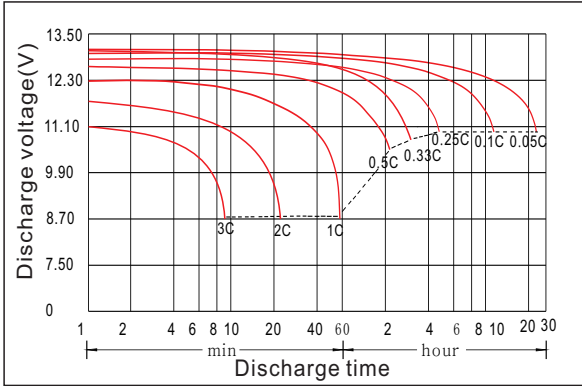
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 396 | 229 | 177 | 108 | 68.4 | 50.0 | 35.9 | 32.8 | 23.8 | 17.2 | 16.0 | 13.0 | 10.5 | 8.84 | 4.64 |
| 1.67V | 380 | 211 | 165 | 102 | 67.7 | 47.7 | 35.6 | 32.6 | 23.6 | 17.1 | 15.8 | 12.9 | 10.4 | 8.76 | 4.61 |
| 1.70V | 369 | 204 | 160 | 100 | 67.0 | 46.7 | 35.3 | 32.4 | 23.3 | 16.9 | 15.6 | 12.7 | 10.3 | 8.67 | 4.59 |
| 1.75V | 339 | 190 | 152 | 96 | 66.4 | 45.1 | 34.9 | 31.9 | 23.0 | 16.8 | 15.5 | 12.6 | 10.2 | 8.59 | 4.57 |
| 1.80V | 303 | 178 | 143 | 92 | 65.7 | 43.5 | 34.6 | 31.3 | 22.8 | 16.6 | 15.1 | 12.5 | 10.2 | 8.50 | 4.55 |
| 1.85V | 277 | 151 | 123 | 81 | 63.8 | 39.3 | 33.6 | 29.8 | 21.5 | 16.1 | 14.3 | 12.1 | 9.74 | 8.25 | 4.47 |

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

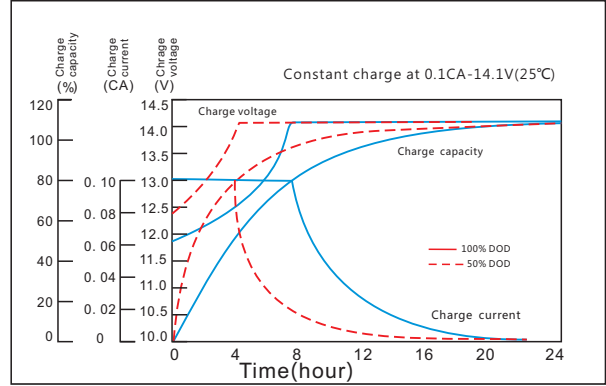
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 643 | 430 | 338 | 210 | 131 | 93.8 | 71.4 | 62.1 | 45.3 | 33.2 | 30.3 | 24.9 | 20.4 | 17.0 | 9.18 |
| 1.67V | 618 | 405 | 320 | 201 | 130 | 90.4 | 70.6 | 61.9 | 44.7 | 32.8 | 30.2 | 24.6 | 20.2 | 16.8 | 9.14 |
| 1.70V | 616 | 394 | 312 | 197 | 129 | 89.0 | 70.1 | 61.6 | 44.5 | 32.6 | 29.9 | 24.5 | 20.2 | 16.7 | 9.10 |
| 1.75V | 574 | 374 | 299 | 191 | 128 | 86.3 | 69.3 | 61.3 | 44.2 | 32.2 | 29.8 | 24.2 | 20.0 | 16.5 | 9.05 |
| 1.80V | 527 | 354 | 285 | 184 | 127 | 83.6 | 68.9 | 61.1 | 44.1 | 32.0 | 29.4 | 24.1 | 19.9 | 16.4 | 9.01 |
| 1.85V | 487 | 304 | 248 | 165 | 124 | 76.0 | 67.2 | 58.4 | 41.9 | 31.2 | 28.1 | 23.5 | 19.1 | 16.0 | 8.93 |

JH12-320W

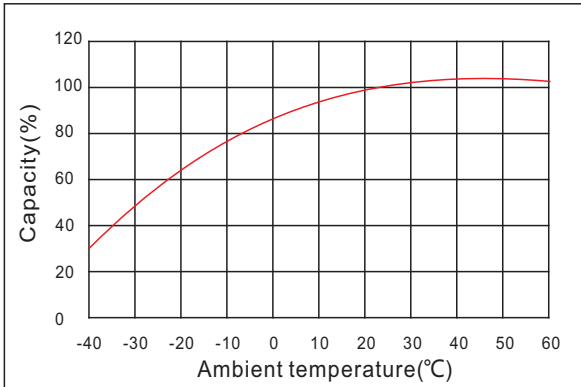
Discharge characteristic



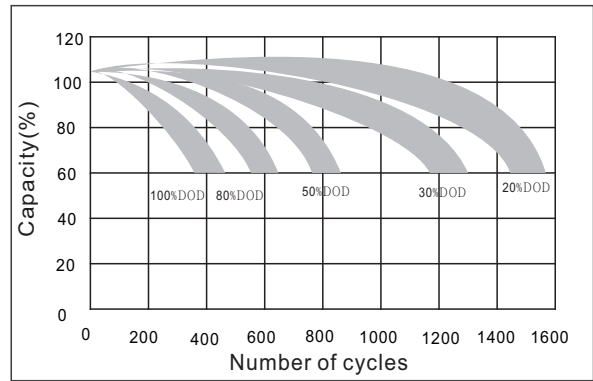
Charging characteristic



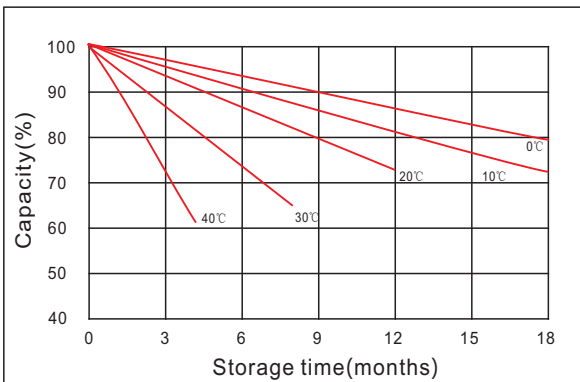
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

