



NPD121000

AGM Deep Cycle Battery

General Features

- Oxygen recombination technology: maintenance-free.
- The patent grid alloy: less gassing, low self-discharging.
- Special paste formula: additives for deep discharge, long cycle life.
- High quality AGM separator: extend cycle life and prevent micro short circuit.
- The patent Nano silica gel electrolytes: improve the deep discharge performance.
- Cast on strap (COS) welding technology for high consistency and reliability.
- ABS container: increase the strength of battery.



Application

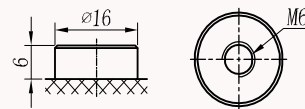
- Electric vehicle
- Lawn mowers
- Illumination light
- Wheelchairs
- Sweeper
- Electric toys
- Electric tools
- Golf trolley and golf cart

Specification

| | |
|-------------------------------------|-----------------------------------------------|
| Nominal Voltage | 12V |
| Nominal Capacity | 100Ah ,C20@1.80Vpc, 25°C(77°F) |
| Dimension | Length 260mm(10.24 inch) |
| | Width 168mm(6.61 inch) |
| | Container Height 215mm(8.46 inch) |
| | Total Height (With Terminal) 215mm(8.46 inch) |
| Rated Capacity (25°C/77°F) | 100Ah/(20Hr, 1.80V/cell) |
| | 96Ah/ (10Hr, 1.80V/cell) |
| | 85Ah/(5Hr, 1.75V/cell) |
| | 81Ah/(3Hr, 1.75V/cell) |
| Weight | 69Ah/(1Hr, 1.70V/cell) |
| | 26Kg ±5% (57.32lbs) |
| | Terminal |
| Container Material | ABS |
| Operating Temp. Range | Discharge: -20 to +50°C(-4~122°F) |
| | Charge: -20 to +50°C(-4~122°F) |
| | Storage: -20 to +50°C(-4~122°F) |
| Capacity affected by Temperature | 102% @ 40°C(104°F) |
| | 100% @ 25°C(77°F) |
| | 85% @ 0°C(32°F) |
| | 65% @ -15°C(5°F) |

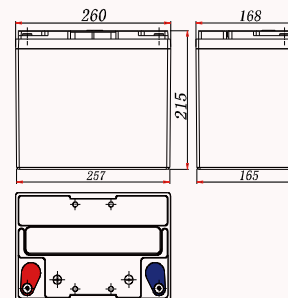
Terminal

Unit:mm



Dimension

Unit:mm



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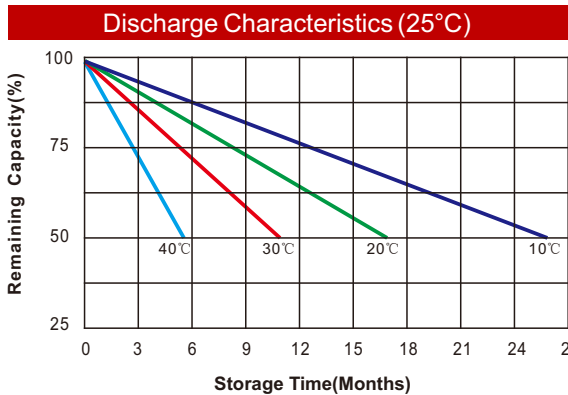
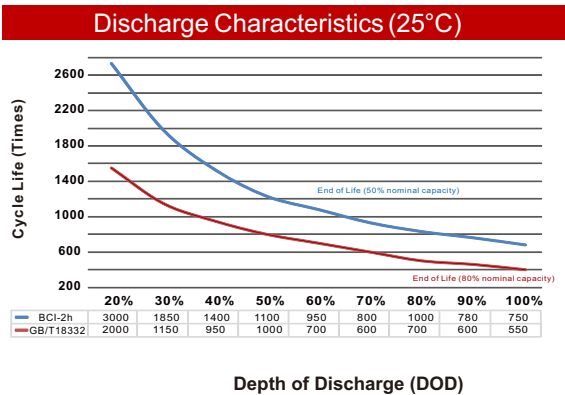
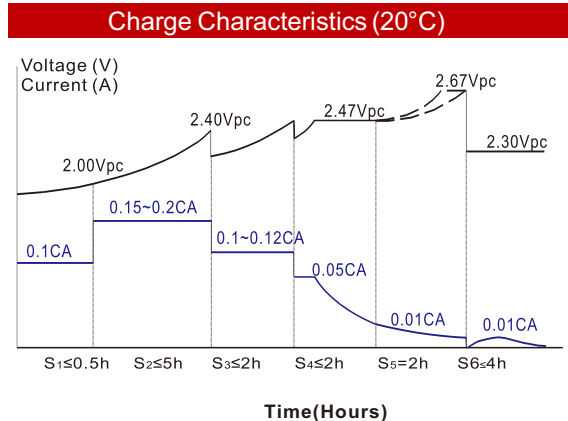
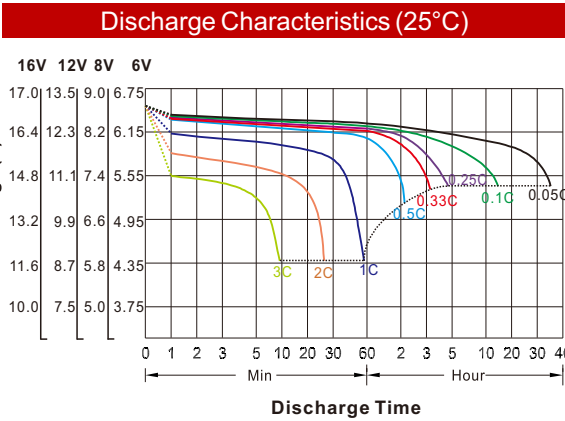
YHI POWER Pty. Ltd Melbourne Head Office: 20-22 Venture Way, Braeside, VIC 3195 Ph: 03 9588 1888 Web: yhipower.com.au

Charge Performance

| Constant Current Discharge Table (25°C/77°F) Unit: A | | | | | | | | | | | | | | | |
|------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 316.8 | 216.0 | 183.9 | 151.2 | 111.2 | 79.4 | 62.88 | 37.58 | 25.76 | 19.63 | 16.03 | 13.54 | 10.58 | 9.30 | 4.92 |
| 1.80V/cell | 342.1 | 225.2 | 188.5 | 154.9 | 114.8 | 81.4 | 64.70 | 38.45 | 26.40 | 20.09 | 16.38 | 13.87 | 10.88 | 9.60 | 4.99 |
| 1.75V/cell | 361.7 | 235.6 | 193.5 | 158.7 | 118.3 | 84.7 | 67.2 | 39.50 | 27.10 | 20.66 | 16.97 | 14.37 | 11.21 | 9.80 | 5.06 |
| 1.70V/cell | 372.1 | 241.3 | 200.1 | 162.7 | 121.2 | 86.9 | 69.4 | 40.46 | 27.68 | 21.26 | 17.43 | 14.75 | 11.60 | 10.01 | 5.14 |
| 1.65V/cell | 379.0 | 248.8 | 204.7 | 166.8 | 123.8 | 89.7 | 71.9 | 41.38 | 28.45 | 21.79 | 17.88 | 15.17 | 11.88 | 10.18 | 5.23 |
| 1.60V/cell | 388.8 | 259.2 | 212.0 | 172.2 | 127.1 | 92.2 | 73.3 | 42.62 | 29.34 | 22.51 | 18.34 | 15.55 | 12.17 | 10.42 | 5.32 |

| Constant Power Discharge Table (25°C/77°F) Unit: W | | | | | | | | | | | | | | | |
|----------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 590.0 | 405.5 | 347.9 | 289.4 | 214.9 | 154.8 | 123.12 | 74.10 | 51.01 | 39.03 | 31.95 | 27.02 | 21.16 | 18.64 | 9.87 |
| 1.80V/cell | 628.6 | 417.1 | 352.7 | 293.2 | 219.5 | 157.5 | 126.02 | 75.39 | 52.07 | 39.77 | 32.48 | 27.60 | 21.70 | 19.17 | 9.98 |
| 1.75V/cell | 648.9 | 428.5 | 357.2 | 297.3 | 224.2 | 162.8 | 130.2 | 77.12 | 53.25 | 40.75 | 33.55 | 28.48 | 22.28 | 19.54 | 10.11 |
| 1.70V/cell | 650.8 | 430.8 | 365.2 | 301.7 | 227.9 | 166.0 | 134.0 | 78.72 | 54.20 | 41.79 | 34.38 | 29.16 | 23.02 | 19.93 | 10.25 |
| 1.65V/cell | 653.3 | 439.4 | 369.7 | 307.6 | 231.4 | 170.6 | 138.2 | 80.19 | 55.49 | 42.68 | 35.13 | 29.91 | 23.51 | 20.23 | 10.42 |
| 1.60V/cell | 654.9 | 446.1 | 376.5 | 313.4 | 235.6 | 173.7 | 139.8 | 81.97 | 56.85 | 43.83 | 35.87 | 30.56 | 24.02 | 20.65 | 10.57 |

Performance Curve



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