



# NPD12600

## 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                 | 60Ah ,C20@1.80Vpc, 25°C(77°F)                 |
| Dimension                        | Length 224mm(8.82 inch)                       |
|                                  | Width 135mm(5.43 inch)                        |
|                                  | Container Height 178mm(8.19 inch)             |
|                                  | Total Height (With Terminal) 178mm(8.35 inch) |
| Rated Capacity<br>(25°C/77°F)    | 61Ah/(20Hr, 1.80V/cell)                       |
|                                  | 59Ah/ (10Hr, 1.80V/cell)                      |
|                                  | 52Ah/(5Hr, 1.75V/cell)                        |
|                                  | 50Ah/(3Hr, 1.75V/cell)                        |
| Weight                           | 42Ah/(1Hr, 1.70V/cell)                        |
|                                  | 15.1Kg ±5% (33.29lbs)                         |
|                                  | Terminal Female Copper Insert I2              |
| 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)                              |

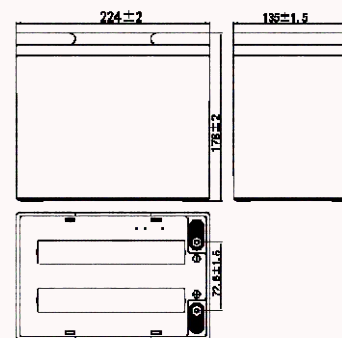
### Terminal

Unit:mm



### Dimension

Unit:mm



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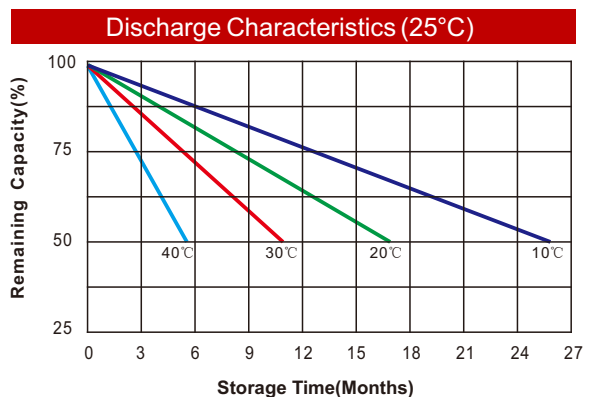
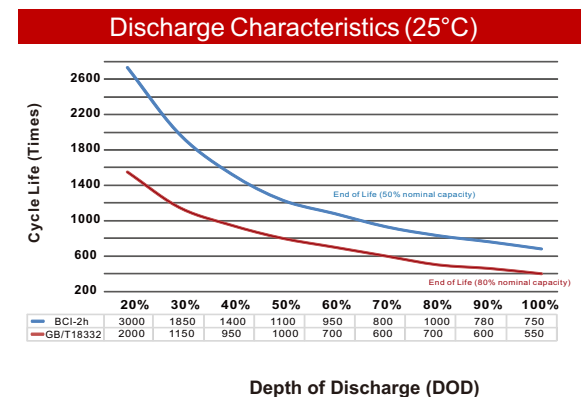
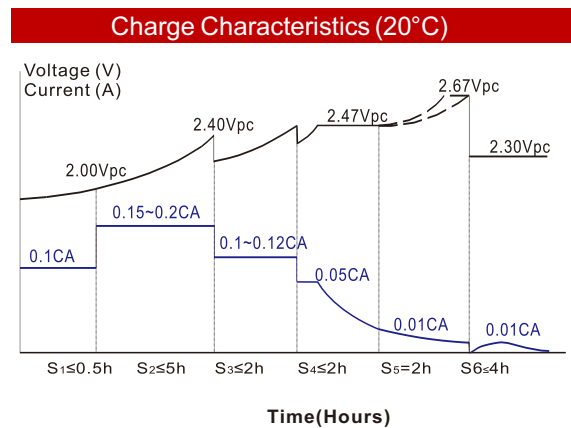
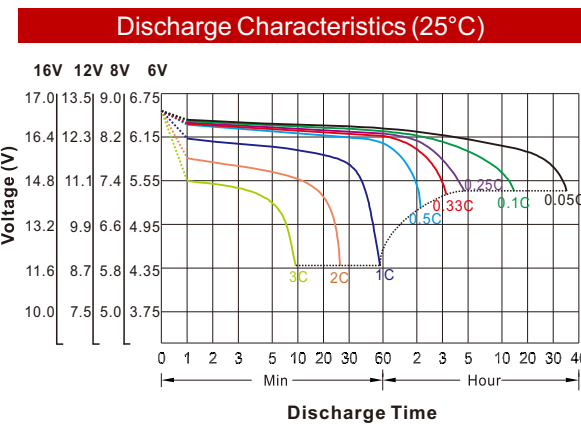
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### Charge Performance

| 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   | 193.1 | 131.6 | 112.1 | 92.1  | 67.7  | 48.4  | 38.3 | 22.9 | 15.7 | 12.0 | 9.8  | 8.25 | 6.45 | 5.67 | 3.00 |
| 1.80V/cell   | 208.5 | 137.2 | 114.9 | 94.4  | 70.0  | 49.6  | 39.4 | 23.4 | 16.1 | 12.2 | 10.0 | 8.45 | 6.63 | 5.85 | 3.04 |
| 1.75V/cell   | 220.4 | 143.6 | 117.9 | 96.7  | 72.1  | 51.6  | 41.0 | 24.1 | 16.5 | 12.6 | 10.3 | 8.76 | 6.83 | 5.97 | 3.08 |
| 1.70V/cell   | 226.7 | 147.1 | 121.9 | 99.2  | 73.8  | 53.0  | 42.3 | 24.7 | 16.9 | 13.0 | 10.6 | 8.99 | 7.07 | 6.10 | 3.13 |
| 1.65V/cell   | 231.0 | 151.6 | 124.7 | 101.6 | 75.5  | 54.7  | 43.8 | 25.2 | 17.3 | 13.3 | 10.9 | 9.24 | 7.24 | 6.21 | 3.19 |
| 1.60V/cell   | 236.9 | 158.0 | 129.2 | 104.9 | 77.5  | 56.2  | 44.7 | 26.0 | 17.9 | 13.7 | 11.2 | 9.48 | 7.41 | 6.35 | 3.24 |

| 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   | 359.5 | 247.1 | 212.0 | 176.4 | 131.0 | 94.3  | 75.00 | 45.2 | 31.1 | 23.8 | 19.5 | 16.46 | 12.90 | 11.36 | 6.01 |
| 1.80V/cell   | 383.1 | 254.2 | 214.9 | 178.7 | 133.8 | 95.9  | 76.80 | 45.9 | 31.7 | 24.2 | 19.8 | 16.82 | 13.22 | 11.68 | 6.08 |
| 1.75V/cell   | 395.4 | 261.1 | 217.7 | 181.2 | 136.6 | 99.2  | 79.3  | 47.0 | 32.4 | 24.8 | 20.5 | 17.35 | 13.57 | 11.90 | 6.16 |
| 1.70V/cell   | 396.6 | 262.5 | 222.5 | 183.8 | 138.9 | 101.2 | 81.6  | 48.0 | 33.0 | 25.5 | 21.0 | 17.77 | 14.03 | 12.14 | 6.25 |
| 1.65V/cell   | 398.1 | 267.8 | 225.3 | 187.5 | 141.0 | 104.0 | 84.2  | 48.9 | 33.8 | 26.0 | 21.4 | 18.23 | 14.33 | 12.33 | 6.35 |
| 1.60V/cell   | 399.1 | 271.9 | 229.5 | 191.0 | 143.6 | 105.9 | 85.2  | 50.0 | 34.6 | 26.7 | 21.9 | 18.63 | 14.64 | 12.58 | 6.44 |

### Performance Curve



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