



# 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

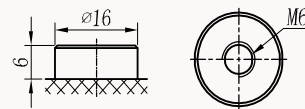
- Electric vehicle
- Lawn mowers
- Illumination light
- Wheelchairs
- Sweeper
- Electric toys
- Electric tools
- Golf trolley and golf cart

### 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)

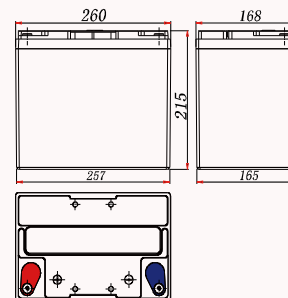
#### Terminal

Unit:mm



#### Dimension

Unit:mm



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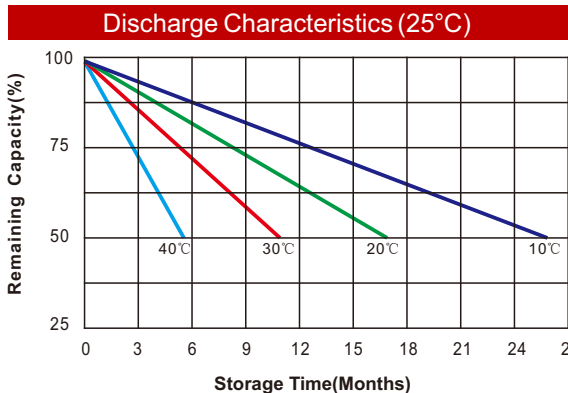
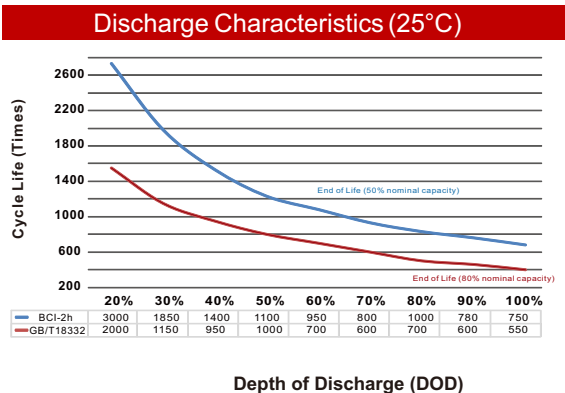
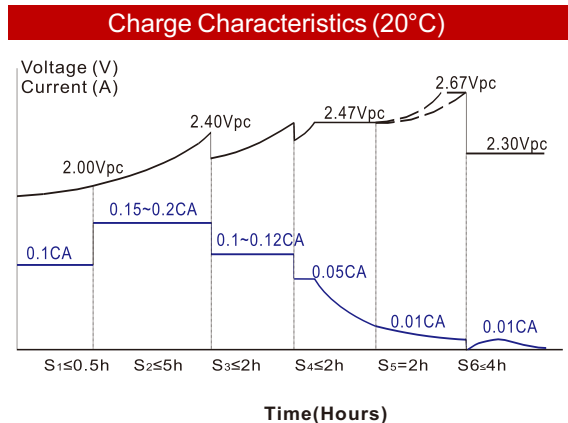
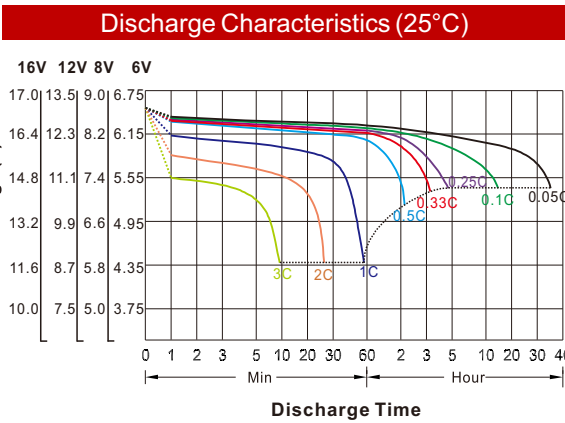
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**Charge Performance**

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	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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