



# NPD121700

## 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.

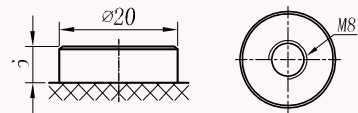
### Application

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

### Specification

Nominal Voltage	12V
Nominal Capacity	170Ah ,C20@1.80Vpc, 25°C(77°F)
Dimension	Length 339mm(13.35inch)
	Width 172mm(6.77 inch)
	Container Height 280mm(11.02 inch)
	Total Height (With Terminal) 281mm(11.06 inch)
Rated Capacity (25°C/77°F)	170Ah/(20Hr, 1.80V/cell)
	164Ah/ (10Hr, 1.80V/cell)
	145Ah/(5Hr, 1.75V/cell)
	139Ah/(3Hr, 1.75V/cell)
	118Ah/(1Hr, 1.70V/cell)
Weight	45Kg ±5% (99.21lbs)
Terminal	Female Copper Insert I7
Container Material	ABS
	Discharge: -20 to +50°C(-4~122°F)
Operating Temp. Range	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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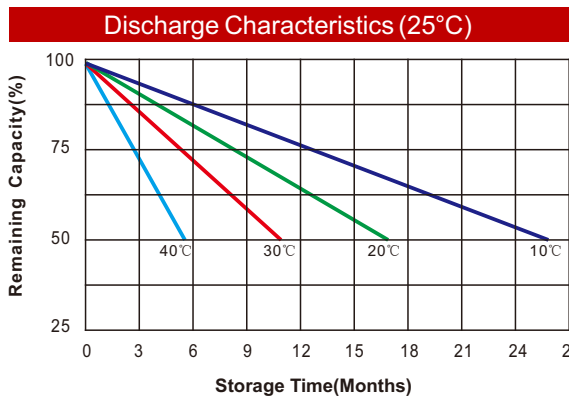
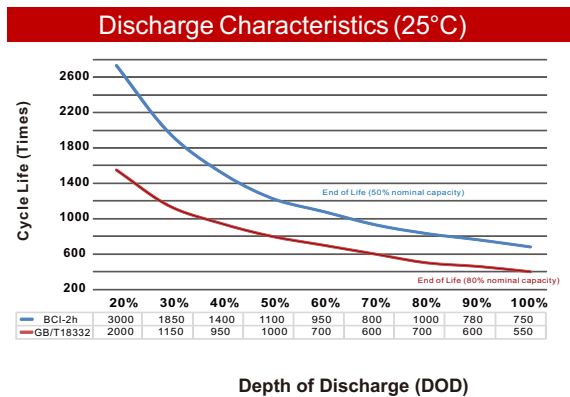
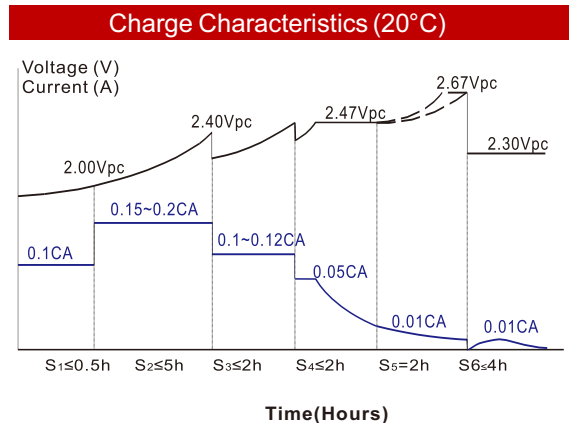
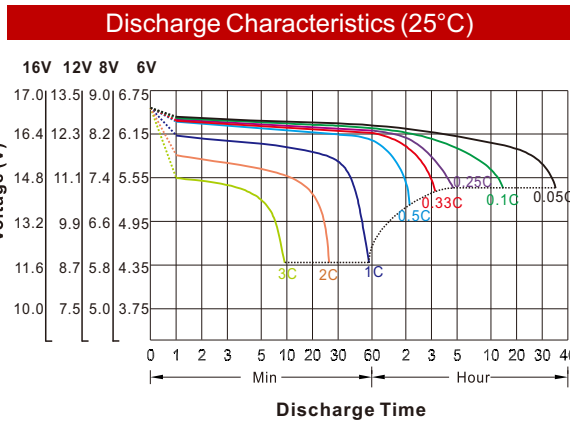
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### Charge Performance

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	539.6	367.9	313.3	257.5	189.3	135.2	107.1	64.0	43.9	33.4	27.3	23.05	18.03	15.84	8.37
1.80V/cell	582.7	383.6	321.1	263.9	195.5	138.6	110.2	65.5	45.0	34.2	27.9	23.63	18.54	16.35	8.50
1.75V/cell	616.1	401.2	329.6	270.3	201.4	144.3	114.5	67.3	46.2	35.2	28.9	24.47	19.09	16.69	8.62
1.70V/cell	633.7	411.0	340.7	277.1	206.3	148.0	118.2	68.9	47.1	36.2	29.7	25.12	19.76	17.04	8.75
1.65V/cell	645.5	423.8	348.6	284.0	210.9	152.8	122.5	70.5	48.5	37.1	30.4	25.83	20.23	17.34	8.91
1.60V/cell	662.2	441.5	361.0	293.3	216.5	157.0	124.9	72.6	50.0	38.3	31.2	26.49	20.72	17.74	9.06

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	1004.8	690.5	592.5	492.9	366.1	263.6	209.70	126.2	86.9	66.5	54.4	46.01	36.04	31.74	16.81
1.80V/cell	1070.7	710.4	600.7	499.3	373.9	268.2	214.60	128.4	88.7	67.7	55.3	47.00	36.95	32.66	17.00
1.75V/cell	1105.2	729.7	608.3	506.3	381.9	277.3	221.7	131.3	90.7	69.4	57.2	48.50	37.94	33.27	17.22
1.70V/cell	1108.4	733.6	622.0	513.8	388.2	282.7	228.2	134.1	92.3	71.2	58.6	49.67	39.21	33.93	17.46
1.65V/cell	1112.6	748.4	629.7	523.9	394.1	290.6	235.4	136.6	94.5	72.7	59.8	50.94	40.05	34.46	17.75
1.60V/cell	1115.3	759.8	641.3	533.8	401.3	295.9	238.0	139.6	96.8	74.6	61.1	52.05	40.90	35.17	18.00

### Performance Curve



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