



NPD121250

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

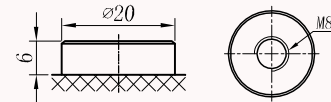
- Electric vehicle
- Lawn mowers
- Illumination light
- Wheelchairs
- Sweeper
- Electric toys
- Electric tools
- Golf trolley and golf cart

Specification

Nominal Voltage	12V
Nominal Capacity	125Ah ,C20@1.80Vpc, 25°C(77°F)
Dimension	Length 330mm(12.99 inch)
	Width 171mm(6.73 inch)
	Container Height 214mm(8.43 inch)
	Total Height (With Terminal) 214mm(8.43 inch)
Rated Capacity (25°C/77°F)	125Ah/(20Hr, 1.80V/cell)
	120Ah/ (10Hr, 1.80V/cell)
	106Ah/(5Hr, 1.75V/cell)
	102Ah/(3Hr, 1.75V/cell)
Weight	87Ah/(1Hr, 1.70V/cell)
	34Kg ±5% (74.96lbs)
	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)

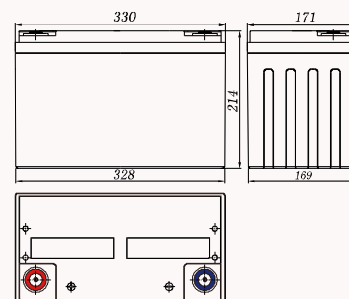
Terminal

Unit:mm



Dimension

Unit:mm



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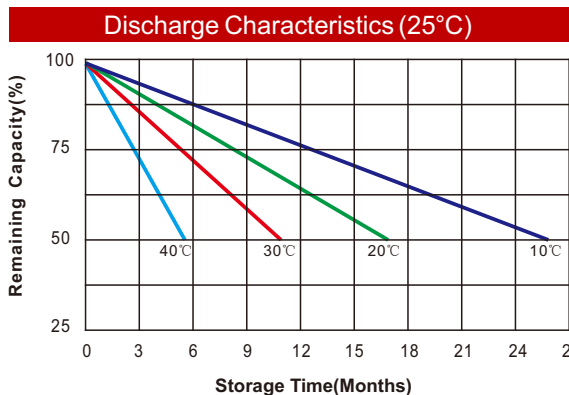
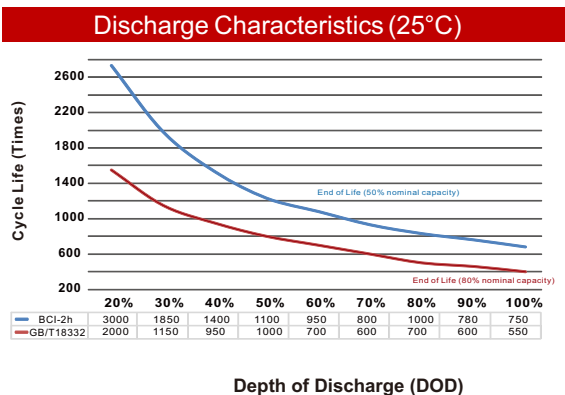
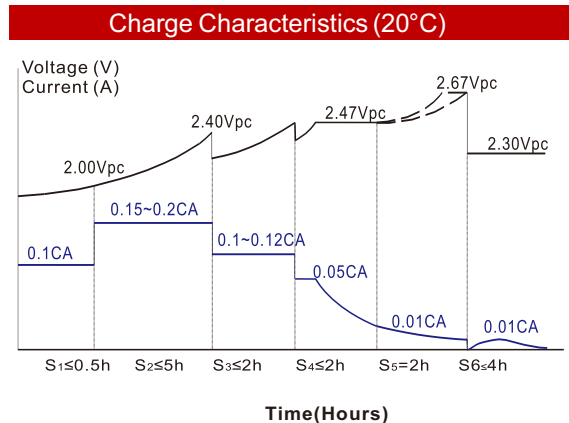
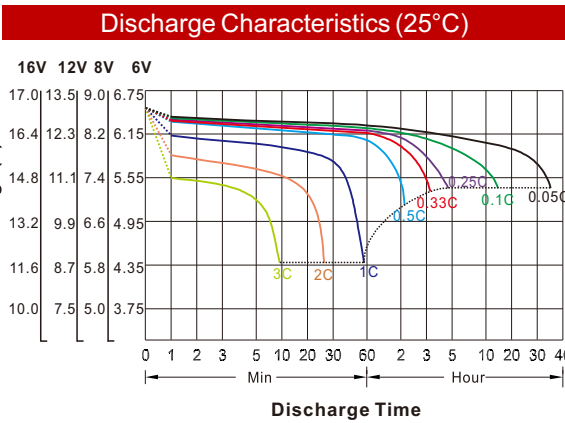
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Charge Performance

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	396.0	270.0	229.9	189.0	139.0	99.2	78.6	47.0	32.2	24.5	20.0	16.92	13.23	11.63	6.15
1.80V/cell	427.7	281.5	235.7	193.7	143.5	101.8	80.9	48.1	33.0	25.1	20.5	17.34	13.61	12.00	6.24
1.75V/cell	452.2	294.5	241.9	198.4	147.8	105.9	84.0	49.4	33.9	25.8	21.2	17.96	14.01	12.25	6.33
1.70V/cell	465.1	301.7	250.1	203.4	151.4	108.6	86.8	50.6	34.6	26.6	21.8	18.44	14.51	12.51	6.42
1.65V/cell	473.8	311.0	255.8	208.4	154.8	112.2	89.9	51.7	35.6	27.2	22.3	18.96	14.85	12.73	6.54
1.60V/cell	486.0	324.0	265.0	215.3	158.9	115.2	91.7	53.3	36.7	28.1	22.9	19.44	15.21	13.02	6.65

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	737.5	506.8	434.9	361.8	268.7	193.4	153.90	92.6	63.8	48.8	39.9	33.77	26.45	23.29	12.34
1.80V/cell	785.8	521.4	440.9	366.5	274.4	196.8	157.50	94.2	65.1	49.7	40.6	34.50	27.12	23.97	12.48
1.75V/cell	811.2	535.6	446.5	371.6	280.3	203.5	162.7	96.4	66.6	50.9	41.9	35.60	27.84	24.42	12.64
1.70V/cell	813.5	538.4	456.5	377.1	284.9	207.5	167.5	98.4	67.7	52.2	43.0	36.45	28.78	24.91	12.82
1.65V/cell	816.6	549.3	462.1	384.5	289.3	213.3	172.8	100.2	69.4	53.4	43.9	37.39	29.39	25.29	13.03
1.60V/cell	818.6	557.7	470.7	391.8	294.5	217.2	174.7	102.5	71.1	54.8	44.8	38.21	30.02	25.81	13.21

Performance Curve



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