



NPD121900

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	190Ah ,C20@1.80Vpc, 25°C(77°F)
Dimension	Length 480mm(18.9 inch)
	Width 170mm(6.69 inch)
	Container Height 236mm(9.29 inch)
	Total Height (With Terminal) 236mm(9.29 inch)
Rated Capacity (25°C/77°F)	190Ah/(20Hr, 1.80V/cell)
	183Ah/ (10Hr, 1.80V/cell)
	162Ah/(5Hr, 1.75V/cell)
	155Ah/(3Hr, 1.75V/cell)
Weight	132Ah/(1Hr, 1.70V/cell)
	52Kg ±5% (114.64lbs)
	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)

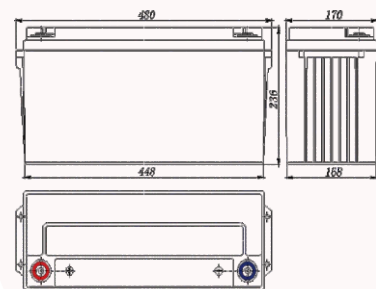
Terminal

Unit:mm



Dimension

Unit:mm



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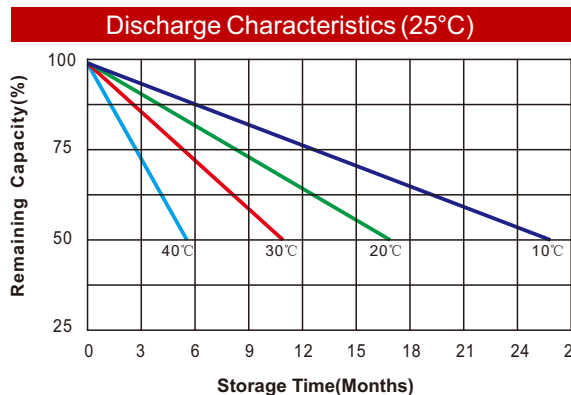
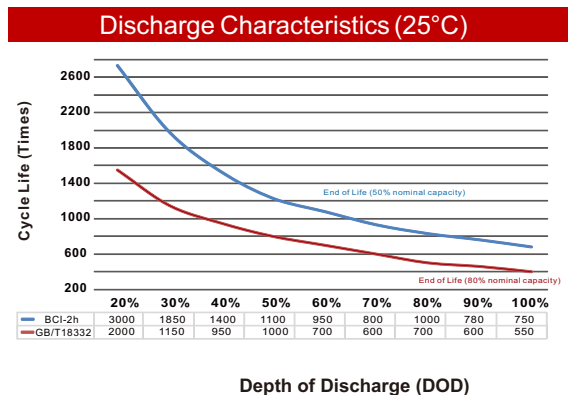
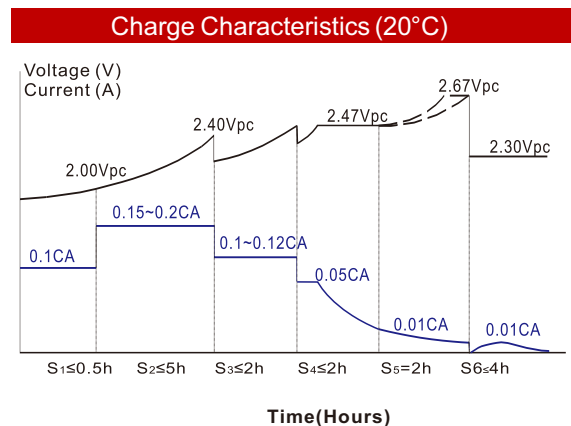
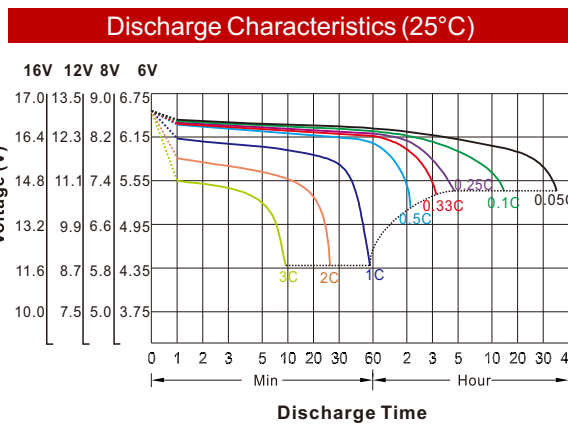
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Charge Performance

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	603.9	411.8	350.6	288.2	211.9	151.3	119.9	71.6	49.1	37.4	30.6	25.80	20.18	17.73	9.37
1.80V/cell	652.2	429.3	359.4	295.4	218.9	155.2	123.3	73.3	50.3	38.3	31.2	26.44	20.75	18.30	9.51
1.75V/cell	689.5	449.1	368.9	302.5	225.5	161.5	128.1	75.3	51.7	39.4	32.4	27.39	21.37	18.69	9.65
1.70V/cell	709.3	460.1	381.4	310.2	230.9	165.7	132.3	77.1	52.8	40.5	33.2	28.12	22.12	19.08	9.79
1.65V/cell	722.5	474.3	390.2	317.9	236.1	171.0	137.1	78.9	54.2	41.5	34.1	28.91	22.65	19.41	9.97
1.60V/cell	741.2	494.1	404.1	328.3	242.3	175.7	139.8	81.3	55.9	42.9	35.0	29.65	23.20	19.86	10.14

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	1124.6	772.9	663.2	551.7	409.7	295.0	234.70	141.3	97.2	74.4	60.9	51.50	40.34	35.52	18.81
1.80V/cell	1198.4	795.1	672.3	558.9	418.4	300.1	240.20	143.7	99.3	75.8	61.9	52.61	41.36	36.55	19.03
1.75V/cell	1237.0	816.8	680.9	566.7	427.4	310.4	248.1	147.0	101.5	77.7	64.0	54.29	42.46	37.24	19.27
1.70V/cell	1240.6	821.1	696.2	575.1	434.5	316.5	255.4	150.1	103.3	79.7	65.5	55.59	43.88	37.98	19.55
1.65V/cell	1245.3	837.6	704.8	586.4	441.1	325.3	263.5	152.9	105.8	81.4	67.0	57.01	44.82	38.57	19.87
1.60V/cell	1248.3	850.5	717.8	597.5	449.1	331.2	266.4	156.3	108.4	83.5	68.4	58.26	45.78	39.36	20.15

Performance Curve



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