



NPD12450

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

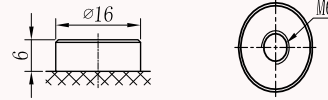
- Electric vehicle
- Lawn mowers
- Illumination light
- Wheelchairs
- Sweeper
- Electric toys
- Electric tools
- Golf trolley and golf cart

Specification

Nominal Voltage	12V
Nominal Capacity	45Ah ,C20@1.80Vpc, 25°C (77°F)
Dimension	Length 198.5mm (7.81 inch)
	Width 166mm (6.54 inch)
	Container Height 169.5mm (6.67 inch)
	Total Height (With Terminal) 169.5mm (6.67 inch)
Rated Capacity (25°C/77°F)	45Ah/(20Hr, 1.80V/cell)
	44Ah/ (10Hr, 1.80V/cell)
	39Ah/(5Hr, 1.75V/cell)
	37Ah/(3Hr, 1.75V/cell)
Weight	32Ah/(1Hr, 1.70V/cell)
	13.5Kg ±5% (29.85lbs)
	Terminal Female Copper Insert I3
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)

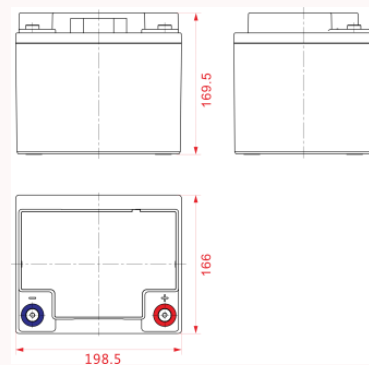
Terminal

Unit:mm



Dimension

Unit:mm



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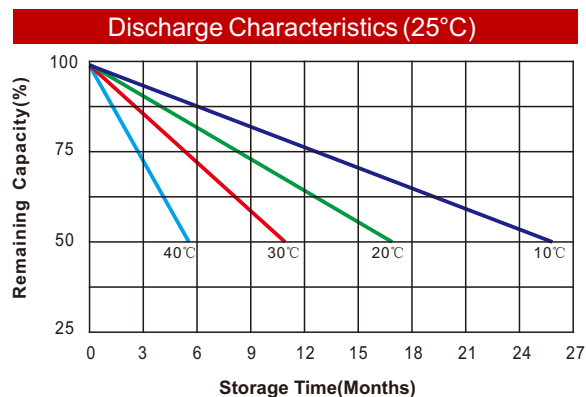
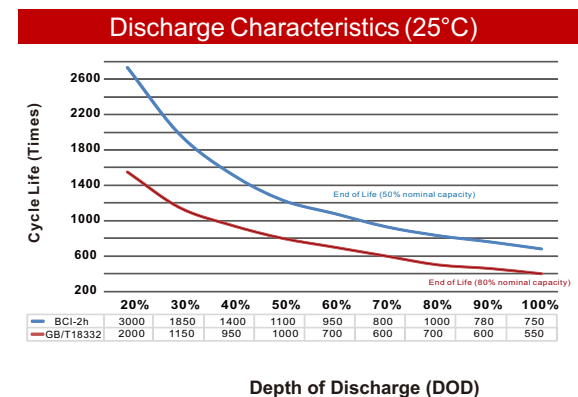
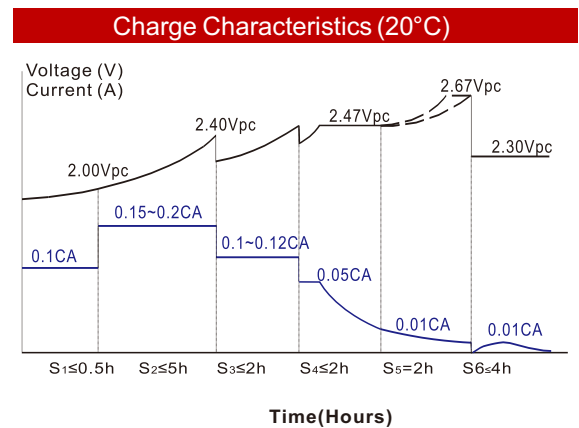
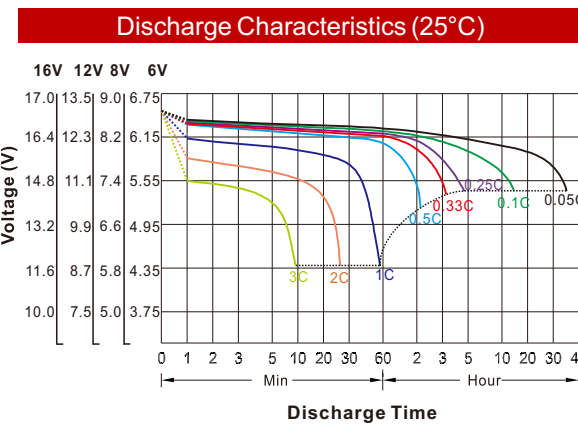
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Charge Performance

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	144.0	98.2	83.6	68.7	50.5	36.1	28.6	17.07	11.71	8.92	7.29	6.15	4.81	4.23	2.24
1.80V/cell	155.5	102.3	85.7	70.4	52.2	37.0	29.4	17.51	12.00	9.13	7.44	6.31	4.95	4.36	2.27
1.75V/cell	164.5	107.1	88.0	72.2	53.8	38.5	30.5	17.95	12.32	9.39	7.72	6.53	5.10	4.45	2.30
1.70V/cell	169.1	109.7	90.9	74.0	55.1	39.5	31.6	18.39	12.58	9.66	7.93	6.71	5.27	4.55	2.33
1.65V/cell	172.3	113.1	93.0	75.8	56.3	40.8	32.7	18.83	12.94	9.91	8.12	6.90	5.40	4.63	2.38
1.60V/cell	176.7	117.8	96.4	78.3	57.8	41.9	33.4	19.36	13.38	10.23	8.33	7.07	5.54	4.73	2.42

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	268.2	184.3	158.1	131.6	97.7	70.3	56.0	33.70	23.23	17.78	14.52	12.28	9.62	8.47	4.49
1.80V/cell	285.7	189.6	160.3	133.2	99.8	71.5	57.3	34.23	23.67	18.04	14.78	12.55	9.86	8.71	4.54
1.75V/cell	295.0	194.7	162.4	135.2	101.9	74.0	59.1	35.02	24.20	18.48	15.22	12.94	10.13	8.88	4.59
1.70V/cell	295.9	195.8	166.1	137.1	103.6	75.5	60.9	35.82	24.64	19.01	15.66	13.29	10.46	9.06	4.66
1.65V/cell	296.9	199.8	168.1	139.8	105.2	77.5	62.8	36.43	25.26	19.36	15.93	13.55	10.69	9.20	4.73
1.60V/cell	297.7	202.8	171.2	142.5	107.1	78.9	63.5	37.22	25.87	19.89	16.28	13.90	10.92	9.39	4.80

Performance Curve



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