



NPD12150

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.



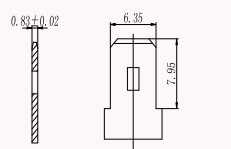
Application

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

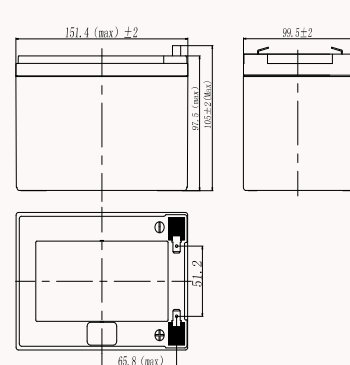
Specification

Nominal Voltage	12V
Nominal Capacity	15Ah ,C20@1.80Vpc, 25°C(77°F)
Dimension	Length 151mm(5.94 inch)
	Width 99mm(3.9 inch)
	Container Height 98mm(3.86 inch)
	Total Height (With Terminal) 103mm(4.06 inch)
Rated Capacity (25°C/77°F)	15Ah/(20Hr, 1.80V/cell)
	15Ah/ (10Hr, 1.80V/cell)
	13Ah/(5Hr, 1.75V/cell)
	12Ah/(3Hr, 1.75V/cell)
Weight	4.3Kg ±5% (9.48lbs)
	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



Dimension



This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and Battery designs/specification are subject to modification without notice. Contact YHI Power for latest information.

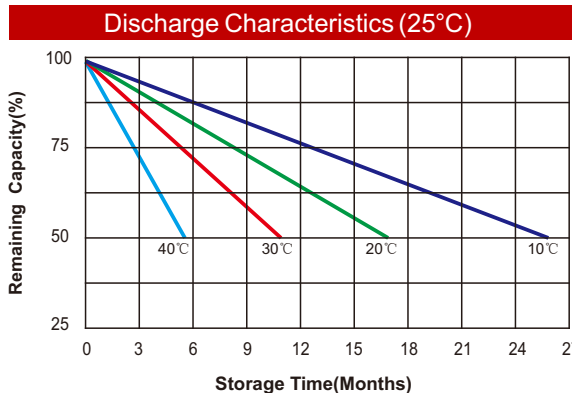
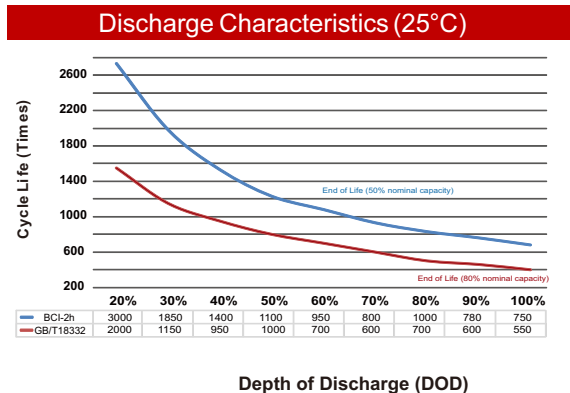
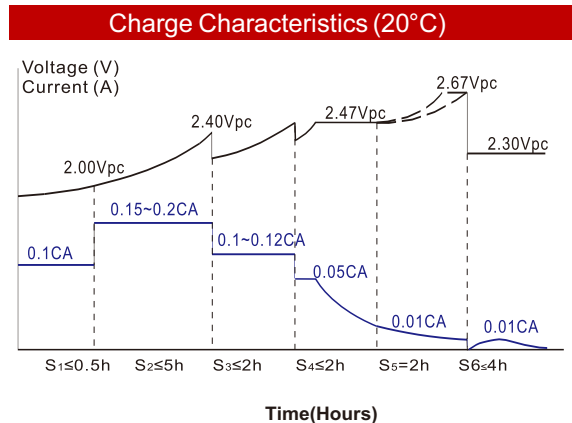
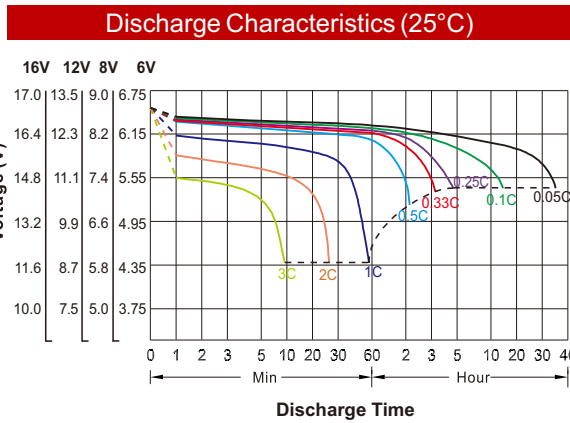
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Charge Performance

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	48.1	32.8	27.9	23.0	16.9	12.1	9.55	5.71	3.91	2.98	2.43	2.06	1.61	1.41	0.747
1.80V/cell	52.0	34.2	28.6	23.5	17.4	12.4	9.83	5.84	4.01	3.05	2.49	2.11	1.65	1.46	0.758
1.75V/cell	54.9	35.8	29.4	24.1	18.0	12.9	10.2	6.00	4.12	3.14	2.58	2.18	1.70	1.49	0.769
1.70V/cell	56.5	36.7	30.4	24.7	18.4	13.2	10.5	6.15	4.20	3.23	2.65	2.24	1.76	1.52	0.78
1.65V/cell	58.3	37.8	31.1	25.3	18.8	13.6	10.9	6.28	4.32	3.31	2.71	2.30	1.80	1.55	0.795
1.60V/cell	59.0	39.4	32.2	26.2	19.3	14.0	11.1	6.47	4.46	3.42	2.78	2.36	1.85	1.58	0.808

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	89.6	61.6	52.8	44.0	32.6	23.5	18.70	11.25	7.75	5.93	4.85	4.10	3.21	2.83	1.499
1.80V/cell	95.5	63.3	53.6	44.5	33.3	23.9	19.14	11.45	7.91	6.04	4.93	4.19	3.30	2.91	1.516
1.75V/cell	98.6	65.1	54.2	45.1	34.1	24.7	19.8	11.71	8.09	6.19	5.10	4.33	3.38	2.97	1.535
1.70V/cell	98.8	65.4	55.5	45.8	34.6	25.2	20.4	11.96	8.23	6.35	5.22	4.43	3.50	3.03	1.557
1.65V/cell	99.3	66.7	56.2	46.7	35.1	25.9	21.0	12.18	8.43	6.48	5.34	4.54	3.57	3.07	1.583
1.60V/cell	99.5	67.8	57.2	47.6	35.8	26.4	21.2	12.45	8.63	6.66	5.45	4.64	3.65	3.14	1.605

Performance Curve



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