



NPD12150M

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.

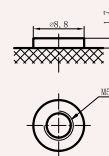
Application

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

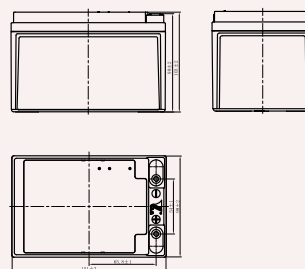
Specification

Nominal Voltage	12V
Nominal Capacity	15Ah, C20@1.80Vpc, 25°C(77°F)
Dimension	Length 151mm(5.94 inch)
	Width 99.5mm(3.92inch)
	Container Height 97.5mm(3.84inch)
	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)
	11Ah/(1Hr, 1.70V/cell)
Weight	3.8Kg±5%(8.37lbs)
Terminal	M5
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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YHI POWER Pty. Ltd Melbourne Head Office: 20-22 Venture Way, Braeside, VIC 3195 Ph: 03 9588 1888 Web: yhipower.com.au

Discharge performance

Constant Current Discharge Table (25°C/77°F) Unit: A

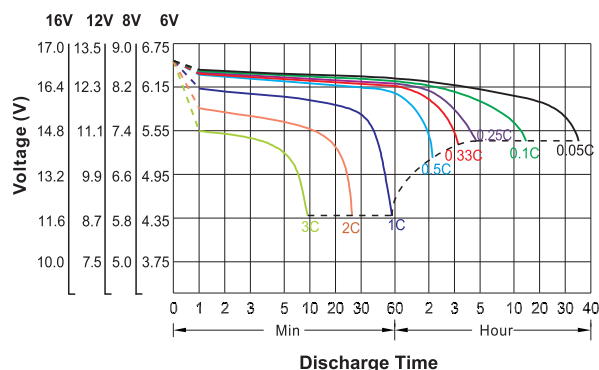
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	48.1	32.8	27.9	23.0	16.9	12.1	9.55	5.71	3.91	2.98	2.43	2.06	1.61	1.41	0.747
1.80V/cell	52.0	34.2	28.6	23.5	17.4	12.4	9.83	5.84	4.01	3.05	2.49	2.11	1.65	1.46	0.758
1.75V/cell	54.9	35.8	29.4	24.1	18.0	12.9	10.2	6.00	4.12	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

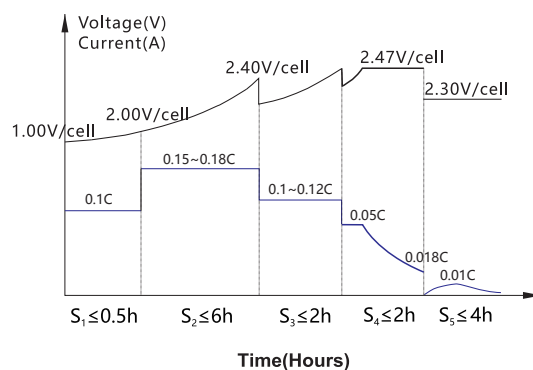
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	89.6	61.6	52.8	44.0	32.6	23.5	18.70	11.25	7.75	5.93	4.85	4.10	3.21	2.83	1.499
1.80V/cell	95.5	63.3	53.6	44.5	33.3	23.9	19.14	11.45	7.91	6.04	4.93	4.19	3.30	2.91	1.516
1.75V/cell	98.6	65.1	54.2	45.1	34.1	24.7	19.8	11.71	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

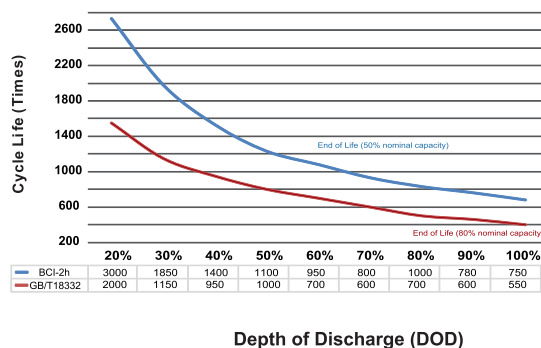
Discharge Characteristics (25°C)



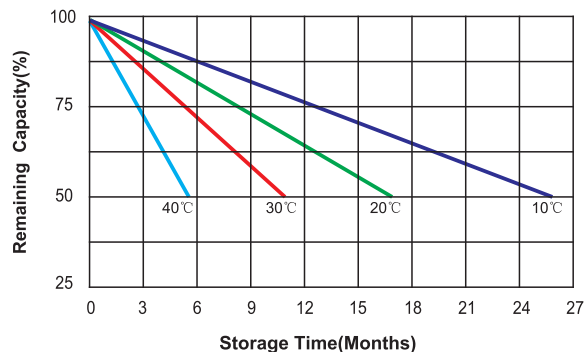
Charge Characteristics (20°C)



Discharge Characteristics (25°C)



Discharge Characteristics (25°C)



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