



NPD122300

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	230Ah ,C20@1.80Vpc, 25°C(77°F)
Dimension	Length 532mm(20.94 inch)
	Width 207mm(8.15 inch)
	Container Height 215mm(8.46 inch)
	Total Height (With Terminal) 220mm(8.66 inch)
Rated Capacity (25°C/77°F)	230Ah/(20Hr, 1.80V/cell)
	221Ah/(10Hr, 1.80V/cell)
	195Ah/(5Hr, 1.75V/cell)
	187Ah/(3Hr, 1.75V/cell)
	160Ah/(1Hr, 1.70V/cell)
Weight	58.8Kg ±5% (130.0lbs)
Terminal	Female Copper Insert M8
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)

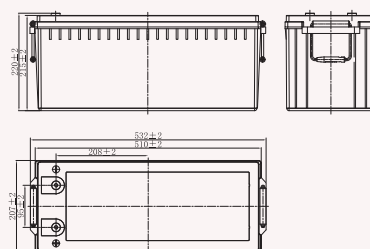
Terminal

Unit:mm



Dimension

Unit:mm



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.

YHI POWER Pty. Ltd Melbourne Head Office: 20-22 Venture Way, Braeside, VIC 3195 Ph: 03 9588 1888 Web: yhipower.com.au

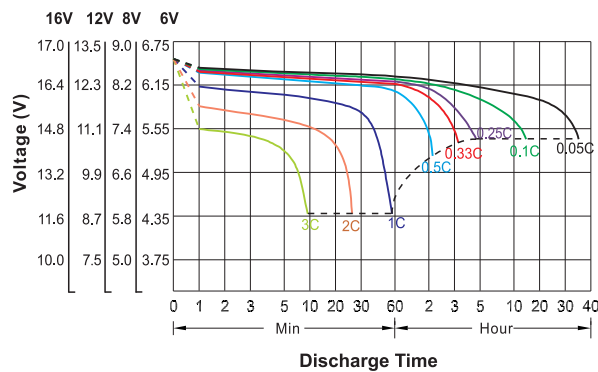
Discharge performance

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	729.3	497.3	423.4	348.1	255.9	182.7	144.8	86.5	59.3	45.2	36.9	31.16	24.37	21.41	11.32
1.80V/cell	787.6	518.5	434.0	356.7	264.3	187.4	149.0	88.5	60.8	46.2	37.7	31.93	25.06	22.10	11.49
1.75V/cell	832.7	542.3	445.5	365.3	272.3	195.1	154.7	90.9	62.4	47.6	39.1	33.08	25.80	22.57	11.65
1.70V/cell	856.6	555.6	460.6	374.6	278.9	200.1	159.8	93.2	63.7	49.0	40.1	33.96	26.71	23.04	11.82
1.65V/cell	872.5	572.8	471.2	383.9	285.1	206.6	165.5	95.3	65.5	50.2	41.2	34.92	27.35	23.44	12.04
1.60V/cell	895.1	596.7	488.0	396.5	292.6	212.2	168.8	98.1	67.6	51.8	42.2	35.80	28.01	23.98	12.24

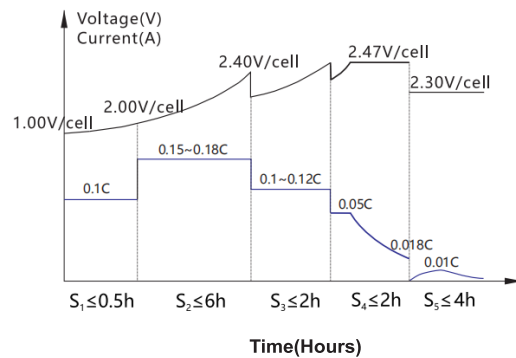
Constant Power Discharge Table (25°C/77°F) Unit: W															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1358.2	933.4	800.9	666.3	494.8	356.3	283.40	170.6	117.4	89.8	73.5	62.19	48.72	42.90	22.72
1.80V/cell	1447.2	960.2	811.9	674.9	505.3	362.5	290.10	173.6	119.9	91.6	74.8	63.53	49.94	44.14	22.99
1.75V/cell	1493.9	986.3	822.2	684.4	516.2	374.8	299.6	177.5	122.6	93.8	77.2	65.56	51.28	44.97	23.27
1.70V/cell	1498.2	991.6	840.7	694.5	524.7	382.2	308.4	181.2	124.8	96.2	79.1	67.14	53.00	45.87	23.60
1.65V/cell	1503.8	1011.6	851.1	708.2	532.7	392.8	318.2	184.6	127.7	98.3	80.9	68.85	54.13	46.58	24.00
1.60V/cell	1507.5	1027.1	866.8	721.5	542.4	400.0	321.8	188.7	130.9	100.9	82.6	70.36	55.29	47.53	24.34

Performance Curve

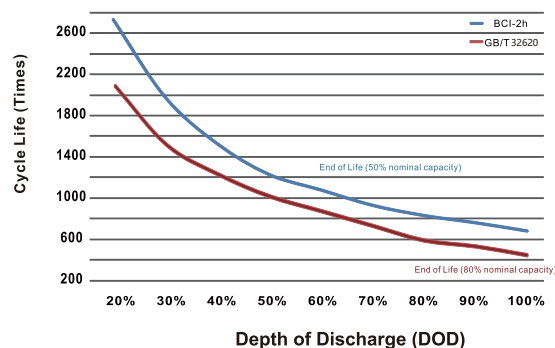
Discharge Characteristics (25°C)



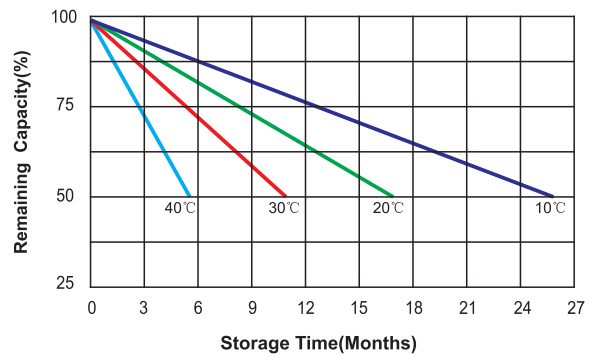
Charge Characteristics (20°C)



Discharge Characteristics (25°C)



Discharge Characteristics (25°C)



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