NPD12950

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

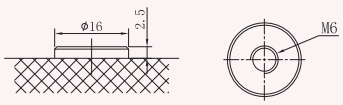
- Electric vehicle
- Lawn mowers
- Illumination light
- Wheelchairs
- Sweeper
- Electric toys
- Electric tools
- Golf trolley and golf cart

Specification

Nominal Voltage	12V
Nominal Capacity	95Ah ,C20@1.80Vpc, 25°C(77°F)
Dimension	Length 260mm(10.24 inch)
	Width 168mm(6.61 inch)
	Container Height 215mm(8.46 inch)
	Total Height (With Terminal) 215mm(8.46 inch)
Rated Capacity (25°C/77°F)	95Ah/(20Hr,1.80V/cell)
	91Ah/(10Hr,1.80V/cell)
	86Ah/(5Hr,1.75V/cell)
	77Ah/(3Hr,1.75V/cell)
	66Ah/(1Hr,1.70V/cell)
Weight	26Kg ±5% (57.32lbs)
Terminal	Female Copper Insert M6
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)

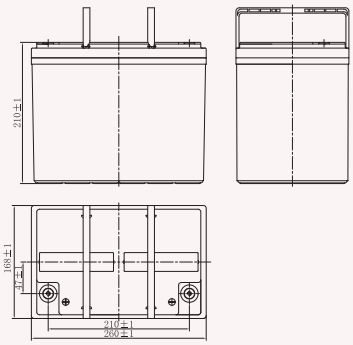
Terminal

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

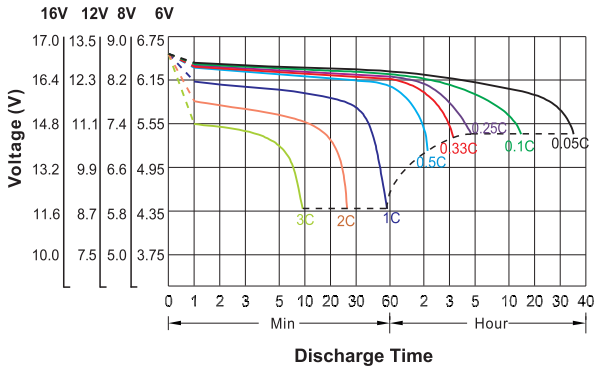
Discharge performance

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	301.6	205.7	175.1	144.0	105.8	75.6	59.9	35.8	24.53	18.69	16.91	12.89	10.08	8.86	4.68
1.80V/cell	325.7	214.4	179.5	147.5	109.3	77.5	61.6	36.6	25.14	19.13	17.14	13.21	10.36	9.14	4.75
1.75V/cell	344.4	224.3	184.3	151.1	112.6	80.7	64.0	37.6	25.81	19.67	17.21	13.68	10.67	9.33	4.82
1.70V/cell	354.3	229.8	190.5	154.9	115.3	82.7	66.1	38.5	26.35	20.25	17.37	14.05	11.05	9.53	4.89
1.65V/cell	360.8	236.9	194.9	158.8	117.9	85.4	68.5	39.4	27.1	20.75	17.37	14.44	11.31	9.70	4.98
1.60V/cell	370.2	246.8	201.8	164.0	121.0	87.7	69.8	40.6	27.9	21.43	17.37	14.81	11.58	9.92	5.06

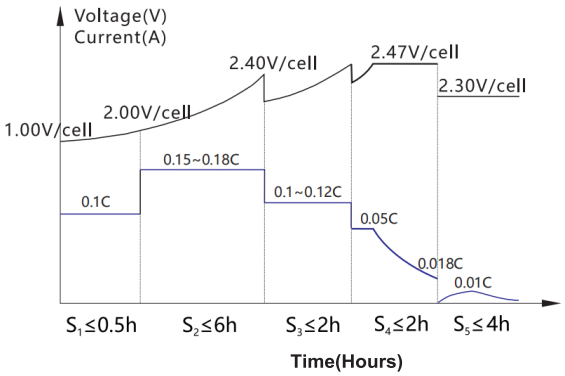
Constant Power Discharge Table (25°C/77°F) Unit: W															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	561.7	386.0	331.2	275.5	204.6	147.3	117.2	70.6	48.6	37.2	33.7	25.72	20.15	17.74	9.40
1.80V/cell	598.5	397.1	335.8	279.1	209.0	149.9	120.0	71.8	49.6	37.9	34.0	26.27	20.66	18.26	9.51
1.75V/cell	617.8	407.9	340.1	283.0	213.5	155.0	123.9	73.4	50.7	38.8	34.0	27.1	21.21	18.60	9.62
1.70V/cell	619.6	410.1	347.7	287.2	217.0	158.1	127.5	75.0	51.6	39.8	34.2	27.8	21.92	18.97	9.76
1.65V/cell	622.0	418.4	352.0	292.9	220.3	162.5	131.6	76.4	52.8	40.6	34.1	28.5	22.39	19.26	9.92
1.60V/cell	623.5	424.8	358.5	298.4	224.3	165.4	133.1	78.0	54.1	41.7	34.0	29.1	22.87	19.66	10.06

Performance Curve

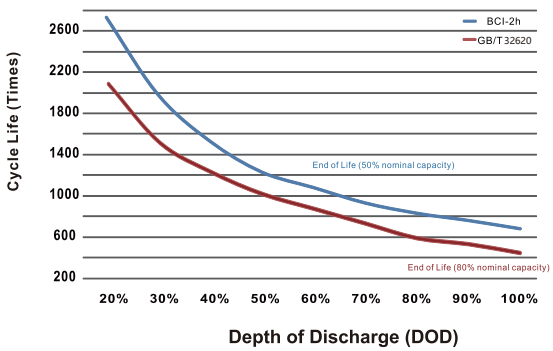
Discharge Characteristics (25°C)



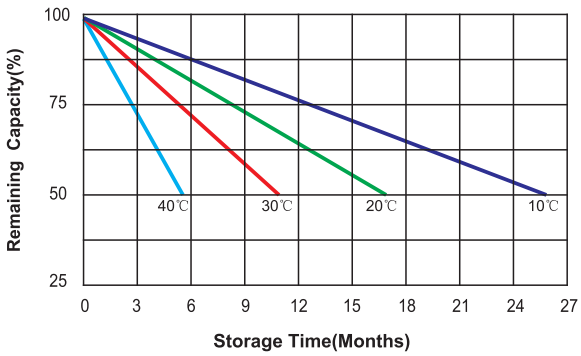
Charge Characteristics (20°C)



Discharge Characteristics (25°C)



Discharge Characteristics (25°C)



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