



NPD121050

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	105Ah ,C20@1.80Vpc, 25°C(77°F)
Dimension	Length 307mm(12.09 inch)
	Width 168mm(6.61 inch)
	Container Height 208mm(8.19inch)
	Total Height (With Terminal) 211.5mm(8.33 inch)
Rated Capacity (25°C/77°F)	105Ah/(20Hr, 1.80V/cell)
	102Ah/(10Hr, 1.80V/cell)
	90Ah/(5Hr, 1.75V/cell)
	86Ah/(3Hr, 1.75V/cell)
	73Ah/(1Hr, 1.70V/cell)
Weight	29Kg ±5% (63.93lbs)
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)

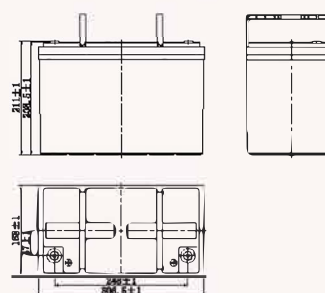
Terminal

Unit:mm



Dimension

Unit:mm



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

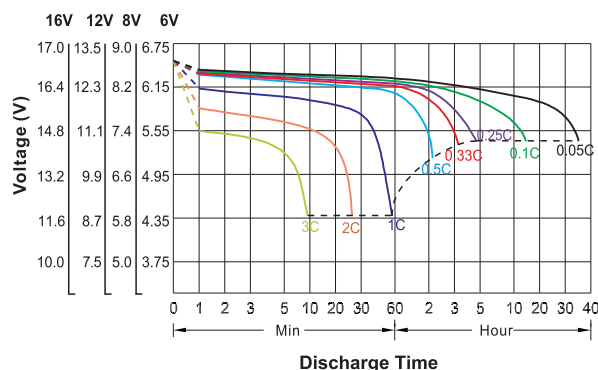
Discharge performance

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	335.0	228.4	194.5	159.9	117.5	83.9	66.48	39.74	27.24	20.76	16.95	14.31	11.19	9.84	5.20
1.80V/cell	361.7	238.1	199.3	163.8	121.4	86.1	68.41	40.65	27.91	21.24	17.32	14.67	11.51	10.15	5.27
1.75V/cell	382.5	249.1	204.6	167.8	125.0	89.6	71.1	41.77	28.66	21.85	17.95	15.19	11.85	10.36	5.35
1.70V/cell	393.4	255.2	211.5	172.0	128.1	91.9	73.4	42.78	29.27	22.48	18.43	15.60	12.27	10.58	5.43
1.65V/cell	400.7	263.1	216.4	176.3	130.9	94.9	76.0	43.75	30.08	23.04	18.90	16.04	12.56	10.77	5.53
1.60V/cell	411.1	274.1	224.1	182.1	134.4	97.4	77.6	45.07	31.03	23.80	19.39	16.44	12.87	11.01	5.62

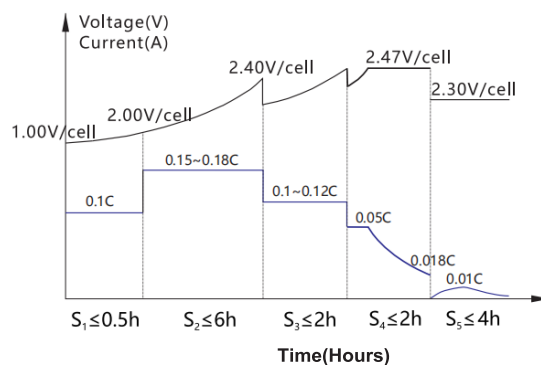
Constant Power Discharge Table (25°C/77°F) Unit: W															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	623.8	428.7	367.8	306.0	227.3	163.6	130.18	78.35	53.94	41.26	33.78	28.56	22.38	19.70	10.43
1.80V/cell	664.7	441.0	372.9	310.0	232.1	166.5	133.24	79.71	55.05	42.05	34.35	29.18	22.94	20.27	10.56
1.75V/cell	686.1	453.0	377.6	314.3	237.1	172.1	137.6	81.53	56.30	43.08	35.48	30.11	23.55	20.65	10.69
1.70V/cell	688.1	455.4	386.1	319.0	241.0	175.5	141.6	83.23	57.30	44.18	36.35	30.83	24.34	21.07	10.84
1.65V/cell	690.7	464.6	390.9	325.2	244.7	180.4	146.1	84.79	58.67	45.13	37.14	31.62	24.86	21.39	11.02
1.60V/cell	692.4	471.7	398.1	331.4	249.1	183.7	147.8	86.67	60.11	46.34	37.93	32.32	25.39	21.83	11.18

Performance Curve

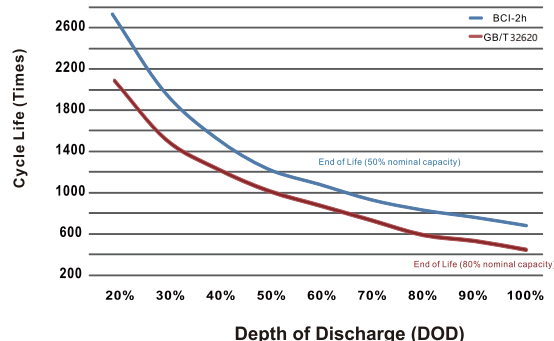
Discharge Characteristics (25°C)



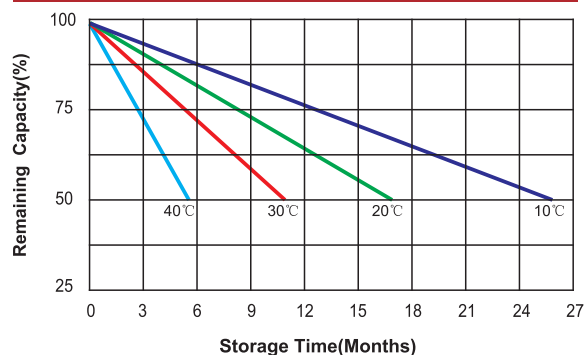
Charge Characteristics (20°C)



Discharge Characteristics (25°C)



Discharge Characteristics (25°C)



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