



NPD12400

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

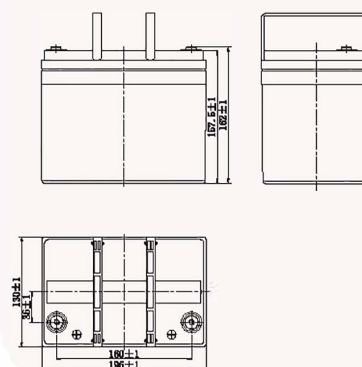
Specification

Nominal Voltage	12V
Nominal Capacity	40Ah, C20@1.80Vpc, 25°C(77°F)
Dimension	Length 195mm(7.68 inch)
	Width 130mm(5.11 inch)
	Container Height 157.5mm(6.20inch)
	Total Height (With Terminal) 162mm(6.38 inch)
Rated Capacity (25°C/77°F)	40Ah/(20Hr, 1.80V/cell)
	39Ah/(10Hr, 1.80V/cell)
	34Ah/(5Hr, 1.75V/cell)
	33Ah/(3Hr, 1.75V/cell)
	28Ah/(1Hr, 1.70V/cell)
Weight	10.8Kg ± 5% (23.80lbs)
Terminal	Female Copper Insert 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



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

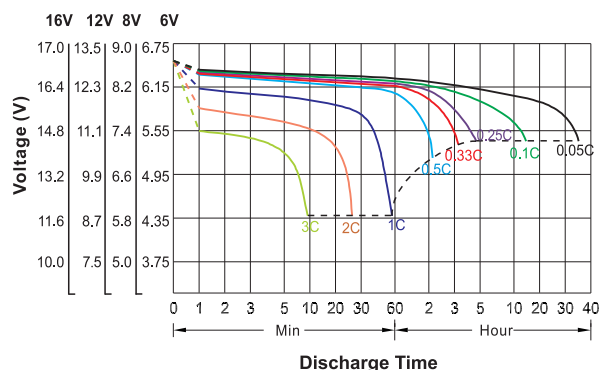
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	127.1	86.6	73.8	60.6	44.6	31.8	25.20	15.10	10.30	7.90	6.43	5.43	4.24	3.73	1.97
1.80V/cell	137.2	90.3	75.6	62.1	46.0	32.6	25.90	15.40	10.60	8.10	6.57	5.56	4.36	3.85	2.00
1.75V/cell	145.1	94.5	77.6	63.6	47.4	34.0	27.00	15.80	10.90	8.30	6.81	5.76	4.49	3.93	2.03
1.70V/cell	149.2	96.8	80.2	65.3	48.6	34.9	27.80	16.20	11.10	8.50	6.99	5.92	4.65	4.01	2.06
1.65V/cell	152.0	99.8	82.1	66.9	49.7	36.0	28.80	16.60	11.40	8.70	7.17	6.08	4.76	4.08	2.10
1.60V/cell	155.9	104.0	85.0	69.1	51.0	37.0	29.40	17.10	11.80	9.00	7.35	6.24	4.88	4.18	2.13

Constant Power Discharge Table (25°C/77°F) Unit: W

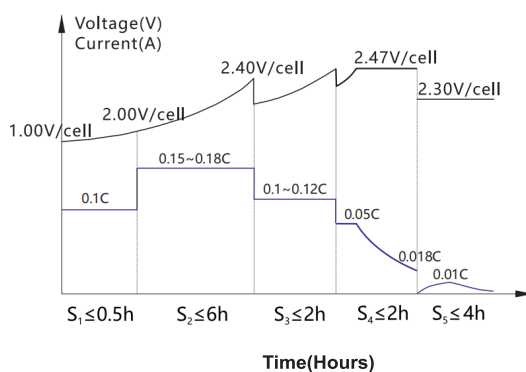
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	236.6	162.6	139.5	116.1	86.2	62.1	49.40	29.70	20.50	15.70	12.81	10.83	8.49	7.47	3.96
1.80V/cell	252.1	167.3	141.4	117.6	88.0	63.1	50.50	30.20	20.90	15.90	13.03	11.07	8.70	7.69	4.00
1.75V/cell	260.3	171.8	143.2	119.2	89.9	65.3	52.20	30.90	21.40	16.30	13.46	11.42	8.93	7.83	4.05
1.70V/cell	261.0	172.7	146.5	121.0	91.4	66.6	53.70	31.60	21.70	16.80	13.79	11.70	9.23	7.99	4.11
1.65V/cell	262.0	176.2	148.3	123.4	92.8	68.4	55.40	32.20	22.30	17.10	14.09	11.99	9.43	8.11	4.18
1.60V/cell	262.6	178.9	151.0	125.7	94.5	69.7	56.10	32.90	22.80	17.60	14.39	12.26	9.63	8.28	4.24

Performance Curve

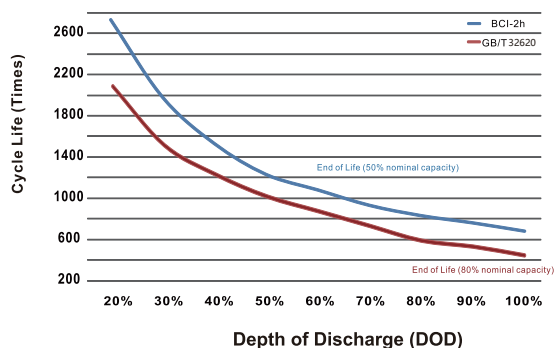
Discharge Characteristics (25°C)



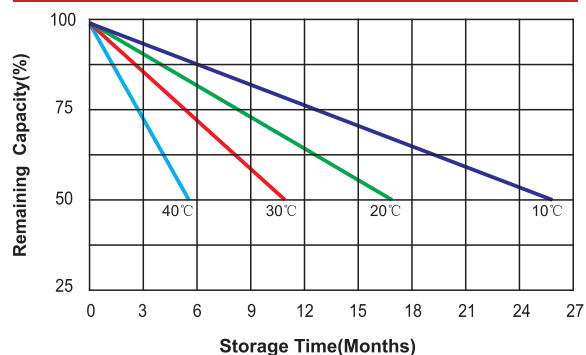
Charge Characteristics (20°C)



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