



NPD121900

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

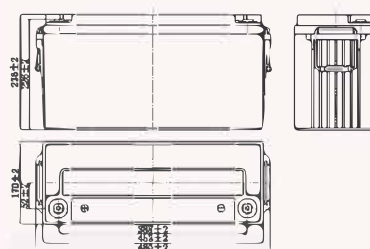
Specification

Nominal Voltage	12V
Nominal Capacity	190Ah, C20@1.80Vpc, 25°C (77°F)
Dimension	Length 480mm (18.90 inch)
	Width 170mm (6.69 inch)
	Container Height 238mm (9.29 inch)
	Total Height (With Terminal) 238mm (9.29 inch)
Rated Capacity (25°C/77°F)	190 Ah/(20Hr, 1.80V/cell)
	185 Ah/(10Hr, 1.80V/cell)
	163 Ah/(5Hr, 1.75V/cell)
	150 Ah/(3Hr, 1.75V/cell)
	108 Ah/(1Hr, 1.70V/cell)
Weight	52Kg ±5% (114.6lbs)
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)
	65% @ 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

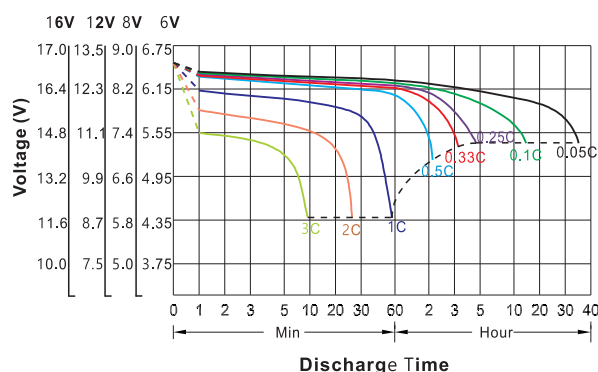
Constant Current Discharge Table (25°C/77°F) Unit: A

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	256.7	218.4	182.6	145.1	110.9	90.8	57.89	45.69	36.65	29.51	25.73	20.90	17.51	9.41
1.80V/cell	328.1	263.8	215.9	171.3	128.9	101.8	63.13	49.22	39.17	31.71	27.62	22.16	18.54	9.50
1.75V/cell	360.5	288.1	232.2	177.8	133.9	106.5	65.48	50.08	40.01	32.55	28.35	22.58	18.75	9.59
1.70V/cell	392.8	307.6	244.0	185.1	139.2	109.8	68.05	51.57	41.06	33.39	28.98	22.89	18.95	9.77
1.65V/cell	424.0	327.1	259.3	195.3	142.6	113.4	69.98	53.71	42.53	34.34	29.61	23.21	19.26	9.91
1.60V/cell	460.4	349.8	276.2	206.1	148.7	117.5	72.33	55.32	43.79	35.49	30.24	23.42	19.47	9.96

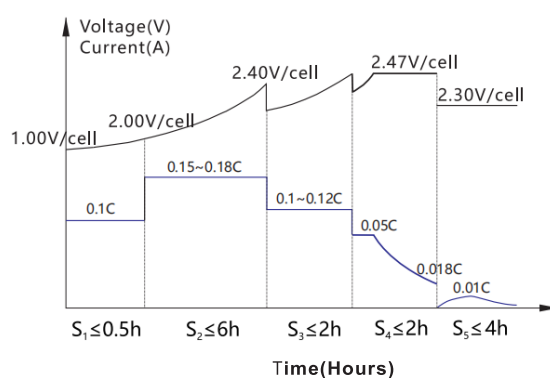
Constant Power Discharge Table (25°C/77°F) Unit: W

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	474.2	407.4	344.2	276.7	213.1	175.2	112.35	89.13	71.61	57.96	50.61	41.27	34.61	18.68
1.80V/cell	598.8	485.6	400.9	321.4	246.0	195.2	121.77	95.34	76.13	61.95	54.08	43.58	36.67	18.78
1.75V/cell	647.4	524.0	427.2	330.9	252.8	203.2	125.83	96.73	77.49	63.32	55.34	44.21	36.98	18.98
1.70V/cell	689.7	551.6	445.5	342.6	261.9	209.0	130.54	99.30	79.49	64.79	56.39	44.84	37.29	19.29
1.65V/cell	737.5	581.9	469.8	358.4	266.1	214.4	133.43	103.04	81.90	66.36	57.44	45.47	38.01	19.49
1.60V/cell	782.4	612.2	495.0	375.8	275.8	220.8	137.17	105.72	84.21	68.36	58.59	45.78	38.32	19.59

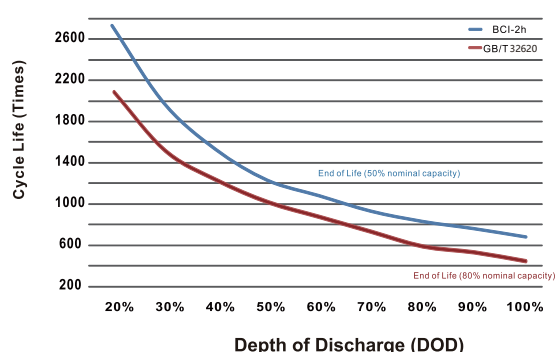
Discharge Characteristics (25°C)



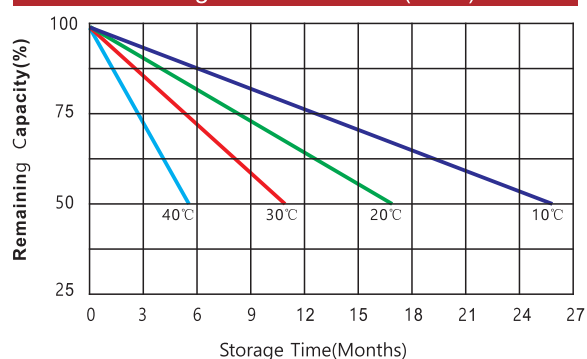
Charge Characteristics (20°C)



Discharge Characteristics (25°C)



Discharge Characteristics (25°C)



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