



NPD12350

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	35Ah ,C20@1.80Vpc, 25°C(77°F)
Dimension	Length 175mm(6.89 inch)
	Width 166mm(6.54 inch)
	Container Height 125mm(4.92 inch)
	Total Height (With Terminal) 128mm(5.04 inch)
Rated Capacity (25°C/77°F)	35Ah/(20Hr, 1.80V/cell)
	34Ah/ (10Hr, 1.80V/cell)
	30Ah/(5Hr, 1.75V/cell)
	29Ah/(3Hr, 1.75V/cell)
	25Ah/(1Hr, 1.70V/cell)
Weight	9.7Kg ±5% (21.38lbs)
Terminal	Female Copper Insert I10
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)

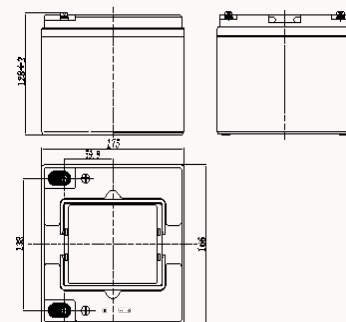
Terminal

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.

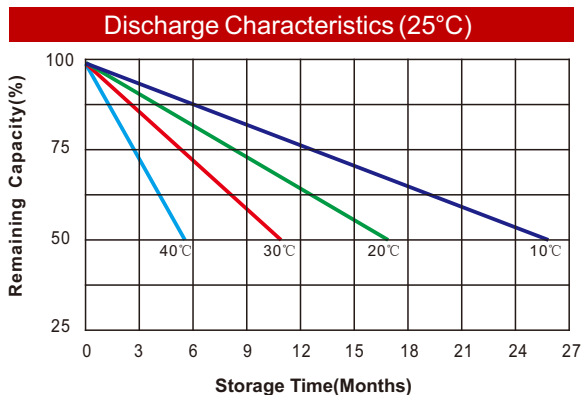
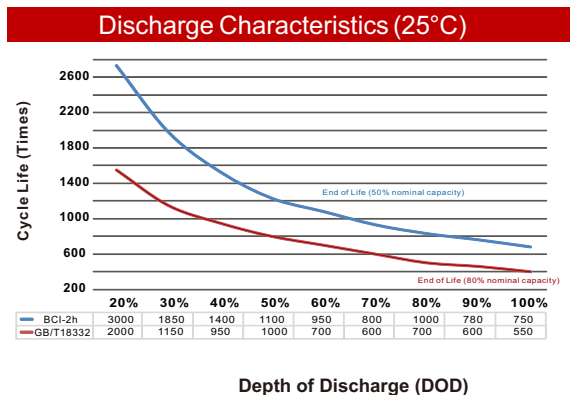
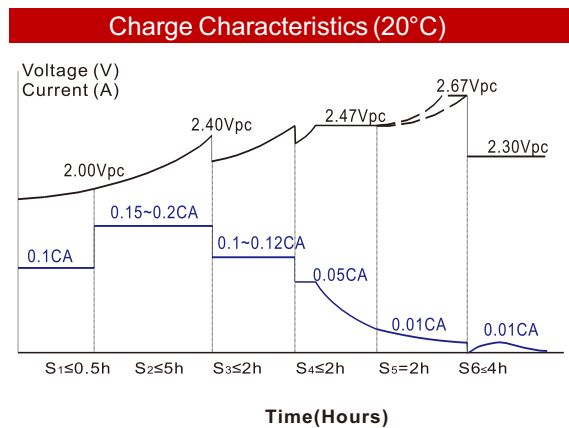
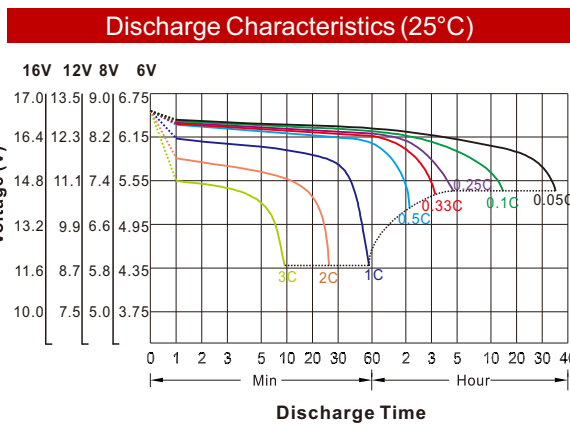
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Charge Performance

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	112.2	76.5	65.1	53.6	39.4	28.1	22.30	13.30	9.12	6.95	5.68	4.79	3.75	3.29	1.74
1.80V/cell	121.2	79.8	66.8	54.9	40.7	28.8	22.90	13.60	9.35	7.11	5.80	4.91	3.85	3.40	1.77
1.75V/cell	128.1	83.4	68.5	56.2	41.9	30.0	23.8	14.00	9.60	7.32	6.01	5.09	3.97	3.47	1.79
1.70V/cell	131.8	85.5	70.9	57.6	42.9	30.8	24.6	14.30	9.80	7.53	6.17	5.22	4.11	3.54	1.82
1.65V/cell	135.9	88.1	72.5	59.1	43.9	31.8	25.5	14.70	10.10	7.72	6.33	5.37	4.21	3.61	1.85
1.60V/cell	137.7	91.8	75.1	61.0	45.0	32.6	26.0	15.10	10.40	7.97	6.49	5.51	4.31	3.69	1.88

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	208.9	143.6	123.2	102.5	76.1	54.8	43.60	26.20	18.10	13.80	11.30	9.57	7.50	6.60	3.49
1.80V/cell	222.6	147.7	124.9	103.8	77.7	55.8	44.60	26.70	18.40	14.10	11.50	9.77	7.68	6.79	3.54
1.75V/cell	229.8	151.7	126.5	105.3	79.4	57.7	46.1	27.30	18.90	14.40	11.90	10.10	7.89	6.92	3.58
1.70V/cell	230.5	152.6	129.3	106.9	80.7	58.8	47.4	27.90	19.20	14.80	12.20	10.30	8.15	7.06	3.63
1.65V/cell	231.4	155.6	130.9	108.9	82.0	60.4	49.0	28.40	19.70	15.10	12.40	10.60	8.33	7.17	3.69
1.60V/cell	231.9	158.0	133.4	111.0	83.4	61.5	49.5	29.00	20.10	15.50	12.70	10.80	8.51	7.31	3.74

Performance Curve



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