DATASHEET NH12-33W

Introduction

Anda NH (high rate) series is primarily for heavy load discharge in short time backup especially in UPS applications. Designed with a high-density plate technology, the series battery is featured of high consistency, excellent performance and reliable standby service life.

Battery Features

- ○ High rate output aimed at the UPS market
- ○ Low self-discharge
- ○ Fully tank formed plates
- ○ Low impurity electrolyte
- ○ Spill proof / leak proof
- ○ Multi-position usage
- ○ ABS case and cover VO upon request
- ○ Very high purity lead

Electrical Specification

Design floating Life @ 25°C (77°F)	5 years
Nominal Capacity @ 25°C /77°F	
Watt @ 15min to 1.67V/cell	33 W/cell
Watt @ 10min to 1.67V/cell	43 W/cell
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	19mΩ
Max. Discharge Current @ 25°C /77°F	117A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	1.8A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-30 ~ 50°C

Notes: battery voltage must be adjusted according to temperature.

Effect of temperature on float charge voltage: -3mV/ ℃ /Cell.

Self-Discharge

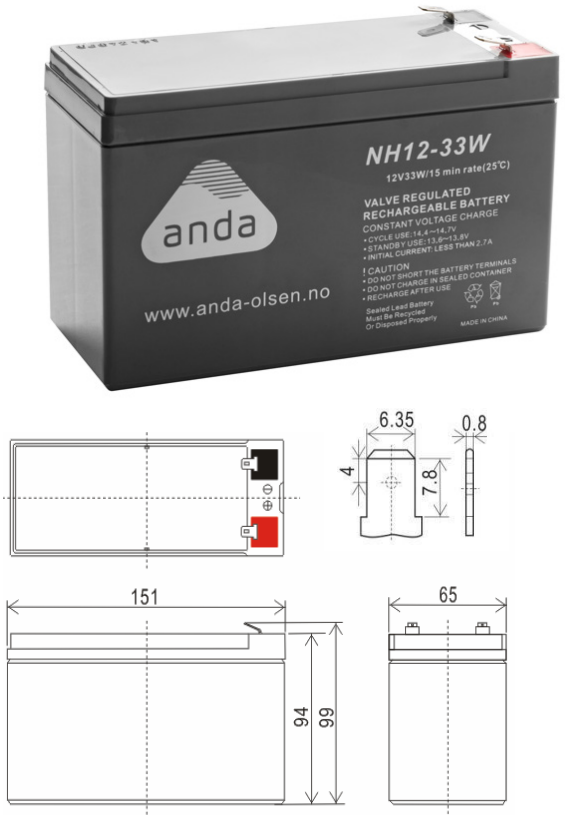
3% of capacity declined per month @ 25°C (77°F).

Typical Applications

- ○ UPS/EPS (High rate)
- ○ High power backup supply
- ○ Emergency power supply
- ○ Emergency lighting
- ○ Electric starting

Certificates

Battery Picture & Terminal Layout



Dimension & Weight

Dimension (± 2mm)				Weight
Length	Width	Height	Total Height	(± 2%)
151 mm	65 mm	94 mm	99 mm	2.35 kg
5.9 inch	2.6 inch	3.7 inch	3.9 inch	5.2 lbs

Constant Current Discharge (Amperes @ 25°C /77°F)

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1.60	45.66	25.64	18.79	14.98	10.63	7.52	6.53	5.91	3.25
1.65	43.91	24.69	18.68	14.66	10.51	7.51	6.34	5.83	3.25
1.70	42.97	24.24	18.36	14.63	10.43	7.49	6.32	5.80	3.22
1.75	39.23	23.17	17.76	14.27	10.33	7.47	6.28	5.79	3.18
1.80	35.45	21.32	16.82	13.60	10.01	7.27	6.04	5.69	3.14

Constant Power Discharge (Watts/cell @ 25°C /77°F)

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1.60	74.4	44.7	33.5	27.1	19.97	14.90	13.90	12.09	6.89
1.65	72.5	44.3	33.3	27.0	19.94	14.82	13.39	12.03	6.74
1.67	**71.0**	**43.3**	**33.1**	**27.0**	**19.92**	**14.75**	**13.14**	**11.98**	**6.61**
1.70	67.9	42.3	32.7	26.3	19.34	14.50	12.83	11.82	6.40
1.75	65.7	40.8	32.3	25.7	19.18	14.37	12.38	11.60	6.18
1.80	58.2	37.7	30.5	25.0	19.12	14.17	12.20	11.32	6.04

Above discharge data is average values after batteries are fully charged.

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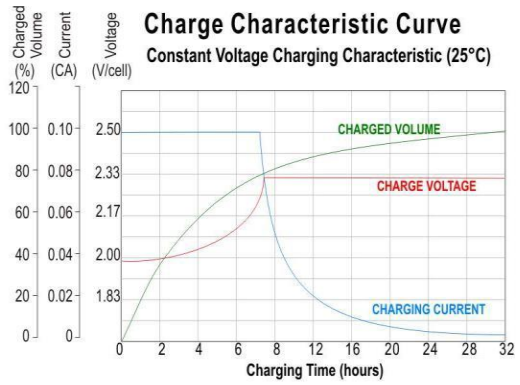
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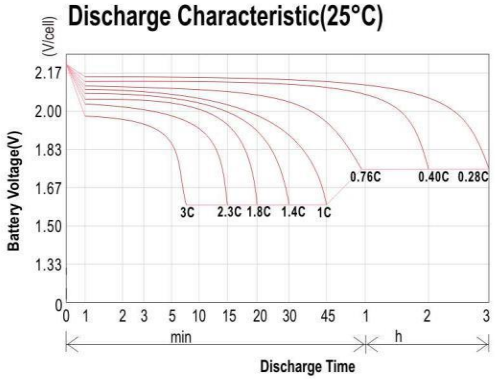
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NO 935692113 MVA

Graphs

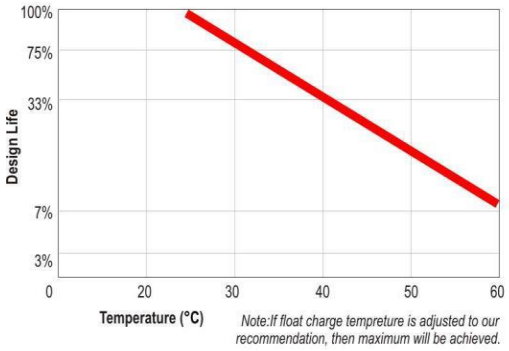
Charge Characteristic Curve



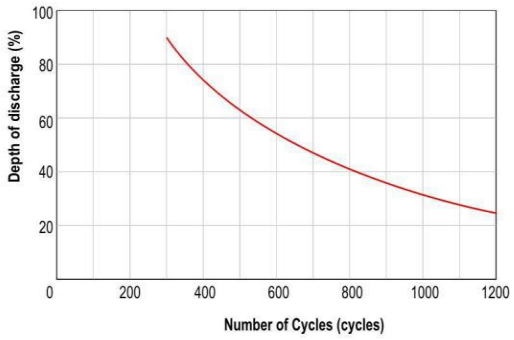
Discharge Characteristic(25°C)



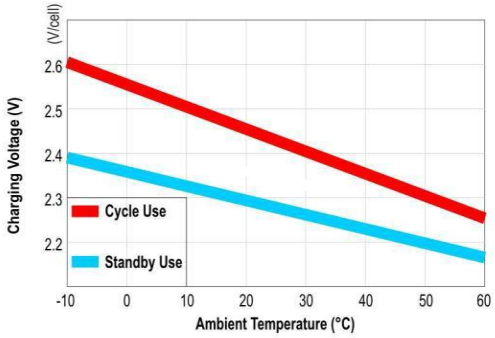
Temperature Effects On Float Life



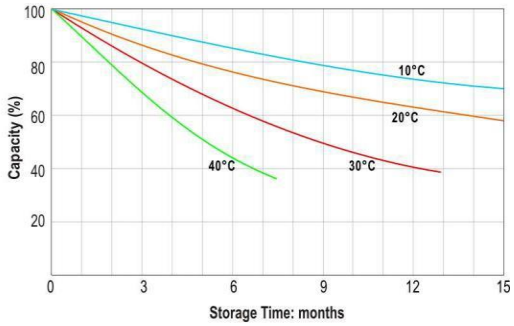
Cycle Service Life V.S. Depth Of Discharge



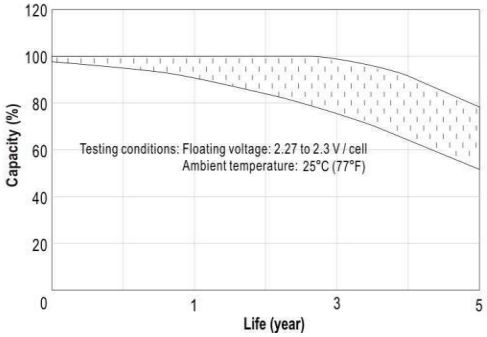
Charging Voltage V.S. Temperature



Self-Discharge Characteristic



Life Characteristics Of Standby Use



Temperature Effects On Capacity

