

NM12-45L

12V 45Ah / 10hr rate**BATTERY**
Genergy

Introduction

Genergy NML (Long life) Series is designed for solar and renewable energy system. GEL electrolyte and AGM separator are applied in this series with feature of long service life. It is widely used in solar and wind power system, UPS and power utility.

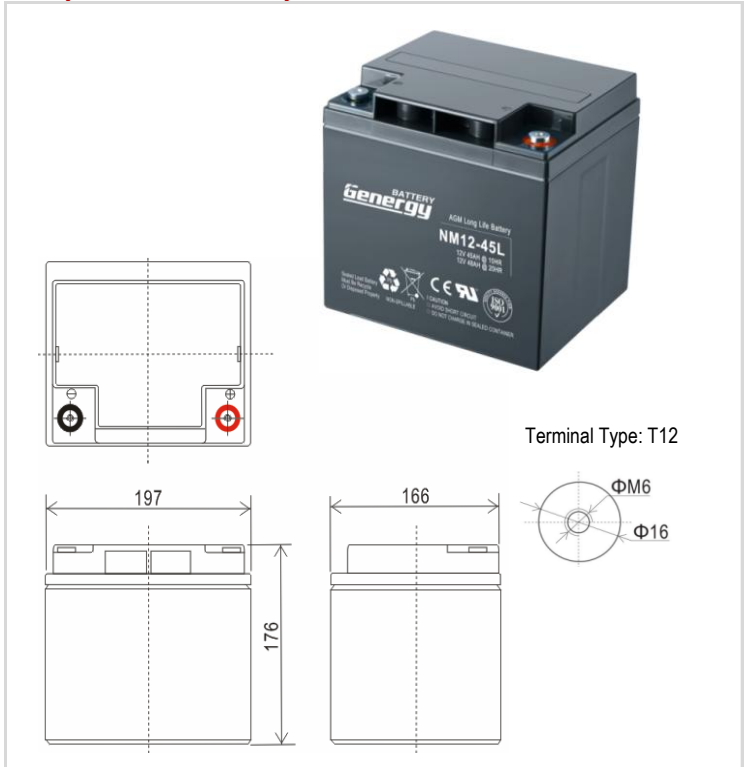
Battery Features

- Increase durability and deep cycle ability for heavy demand applications
- 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 @ 20°C (68°F)	10 years
Nominal Capacity @ 25°C / 77°F	
20 hour rate 2.36A to 1.75Vpc	47.2 Ah
10 hour rate 4.5A to 1.75Vpc	45 Ah
Internal Resistance	
(Fully charged battery @ 25°C / 77°F)	8mΩ
Max. Discharge Current @ 25°C / 77°F	450 A (5S)
Charge Methods: Constant voltage charge @ 25°C / 77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	12 A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	
Self-Discharge	
<3% of capacity declined per month @ 25°C (77°F).	

Battery Picture & Terminal Layout



Dimension & Weight

Length	Dimension (± 2mm)			Weight (± 2%)
	Width	Height	Total Height	
197 mm	166 mm	176 mm	176 mm	14.1 kg
7.8 inch	6.5 inch	6.9 inch	6.9 inch	31.1 lbs

Typical Applications

○ Solar Energy System ○ Wind Energy System ○ Power Utility ○ UPS/EPS

Certificates



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

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	106.9	81.6	70.5	59.4	50.5	45.2	42.2	39.1	36.6	34.2	32.5	17.92	12.79	10.48	8.56	4.58	2.40
1.65	101.5	77.5	67.3	57.1	49.1	44.0	41.1	38.2	35.8	33.6	32.0	17.67	12.54	10.26	8.37	4.55	2.39
1.70	97.3	74.3	64.7	55.0	47.6	42.6	39.8	37.0	34.7	32.6	31.1	17.15	12.26	10.01	8.17	4.51	2.37
1.75	92.8	70.9	61.8	52.7	45.8	41.0	38.4	35.8	33.7	31.8	30.5	16.76	12.00	9.79	7.99	4.50	2.36
1.80	88.1	67.2	58.7	50.3	44.0	39.3	36.9	34.4	32.5	30.7	29.6	16.25	11.71	9.55	7.80	4.35	2.28

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

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	185.7	141.8	124.8	107.7	93.8	84.7	78.7	72.7	67.4	63.4	60.1	33.25	23.88	19.79	16.89	9.13	4.82
1.65	179.1	136.7	120.6	104.4	91.4	82.5	76.7	70.9	65.8	62.1	59.0	32.61	23.66	19.57	16.68	9.04	4.82
1.70	172.2	131.5	116.1	100.7	88.5	79.9	74.4	68.9	64.1	60.7	57.9	31.96	23.22	19.23	16.43	8.87	4.75
1.75	164.7	125.7	111.2	96.7	85.3	77.0	71.8	66.6	62.1	59.1	56.6	31.19	22.56	18.75	16.15	8.80	4.67
1.80	156.6	119.6	106.0	92.4	81.9	74.0	69.1	64.2	60.0	57.2	55.0	30.28	21.97	18.28	15.80	8.71	4.62

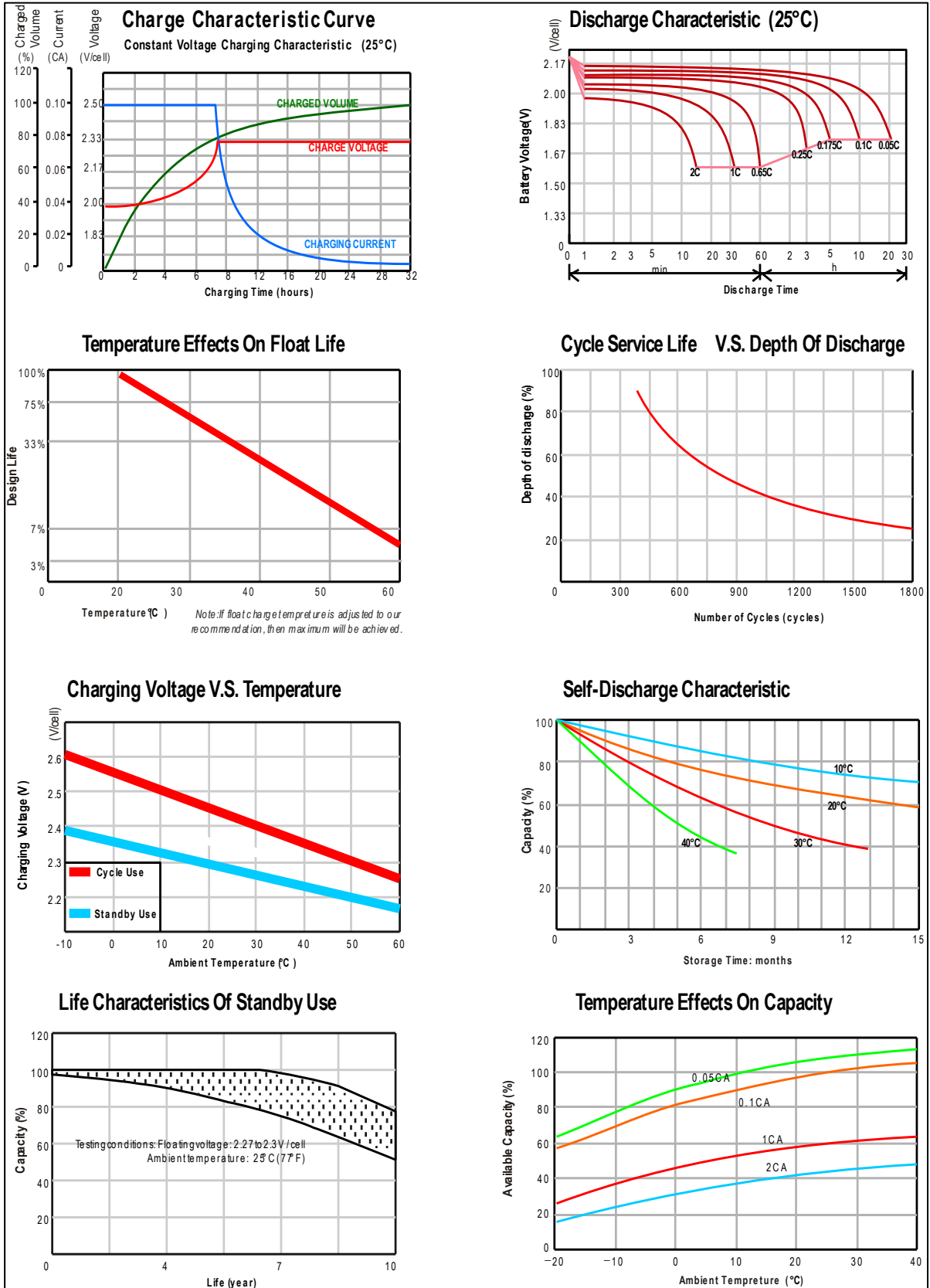
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Graphs



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