

NM12-31L

12V 31Ah / 10hr rate**BATTERY**
Genergy

Introduction

Genergy NML (Long life) Series is designed for solar and renewable energy system. The series is featured of its 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 1.76A to 1.75Vpc 35.2 Ah

10 hour rate 3.14A to 1.75Vpc 31.4 Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) 10mΩ

Max. Discharge Current @ 25°C /77°F 310 A (5S)

Charge Methods: Constant voltage charge @ 25°C /77°F

Cycle Use 14.7 ~ 14.9V

Max. Current 7.8 A

Standby Use 13.6 - 13.8V

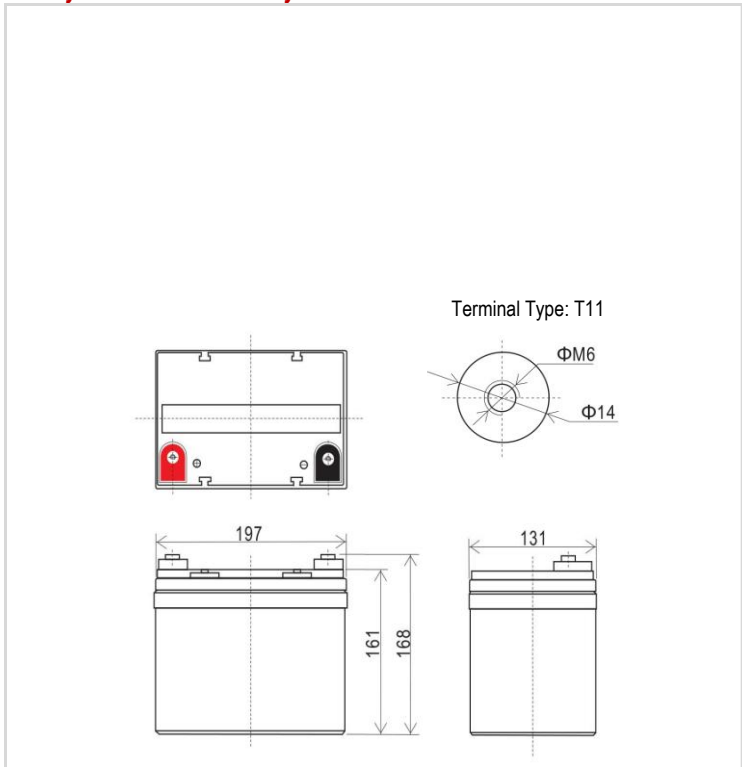
Operating Temperature Range -30 ~ 50°C

*Notes: battery voltage must be adjusted according to temperature.**Please refer to our recommendation.*

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	131 mm	161 mm	168 mm	9.8 kg
7.8 inch	5.2 inch	6.3 inch	6.6 inch	21.6 lbs

Typical Applications

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

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	75.1	57.3	49.5	41.8	35.6	31.8	29.7	27.5	25.8	24.4	23.4	12.53	8.91	7.38	6.03	3.22	1.80
1.65	71.3	54.4	47.3	40.2	34.7	31.0	29.0	26.9	25.3	24.0	23.0	12.29	8.74	7.22	5.89	3.20	1.79
1.70	68.4	52.2	45.4	38.7	33.6	30.0	28.0	26.0	24.5	23.3	22.4	11.87	8.54	7.05	5.75	3.17	1.77
1.75	65.2	49.8	43.4	37.0	32.3	28.8	27.0	25.2	23.8	22.7	22.0	11.55	8.35	6.90	5.63	3.14	1.76
1.80	61.8	47.2	41.3	35.3	31.0	27.7	26.0	24.2	22.9	21.9	21.3	11.13	8.15	6.73	5.49	3.10	1.73

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	130.4	99.6	87.7	75.7	66.5	59.6	55.4	51.2	47.7	44.9	42.6	23.16	16.86	13.93	11.48	6.42	3.61
1.65	125.8	96.0	84.7	73.4	64.7	58.0	54.0	49.9	46.6	43.9	41.8	22.70	16.71	13.78	11.32	6.36	3.61
1.70	120.9	92.3	81.6	70.8	62.7	56.2	52.3	48.5	45.4	42.9	41.0	22.15	16.40	13.54	11.15	6.232528	3.564
1.75	115.7	88.3	78.2	68.0	60.5	54.2	50.5	46.9	44.0	41.8	40.1	21.45	15.93	13.21	10.95	6.19	3.50
1.80	110.0	84.0	74.5	65.0	58.1	52.0	48.6	45.2	42.5	40.5	39.0	20.69	15.52	12.87	10.70	6.12	3.47

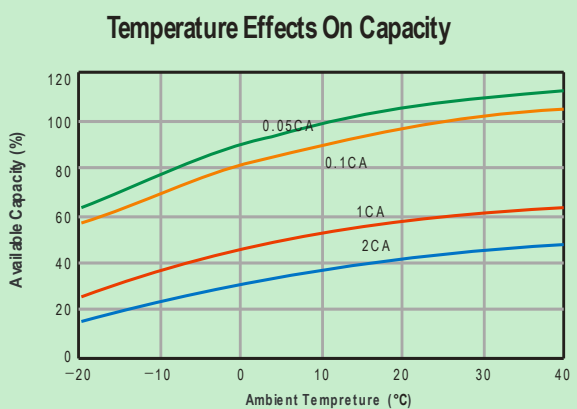
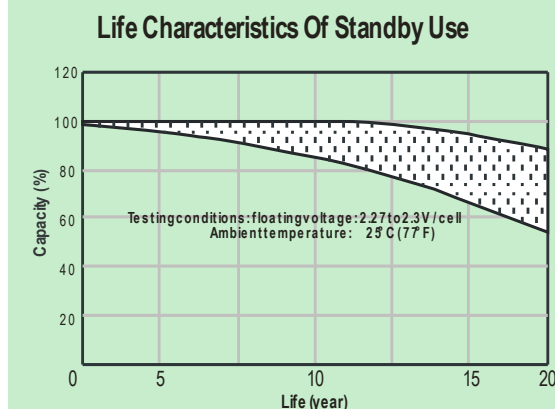
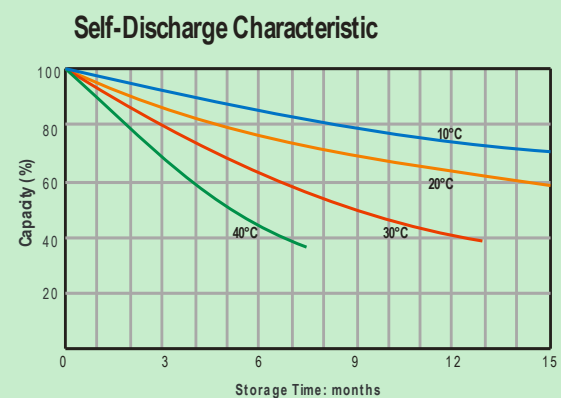
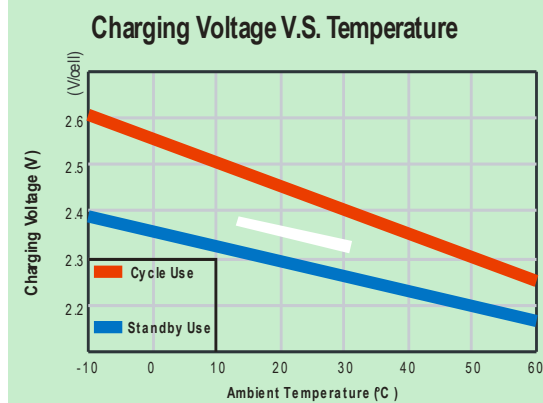
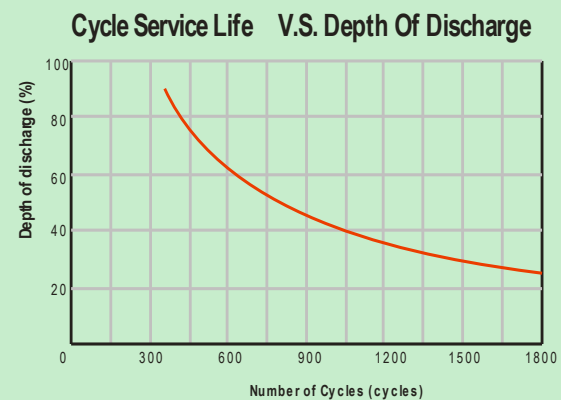
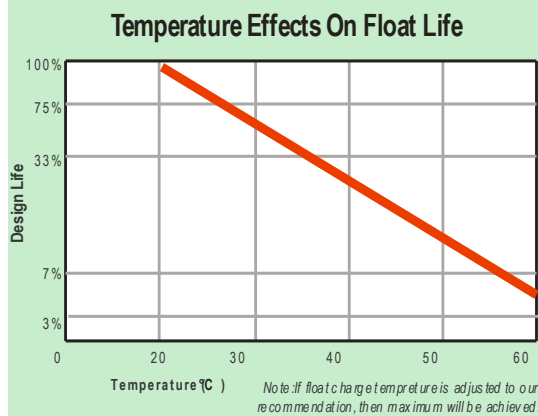
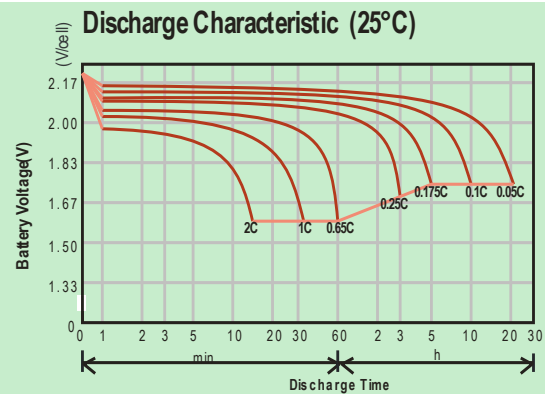
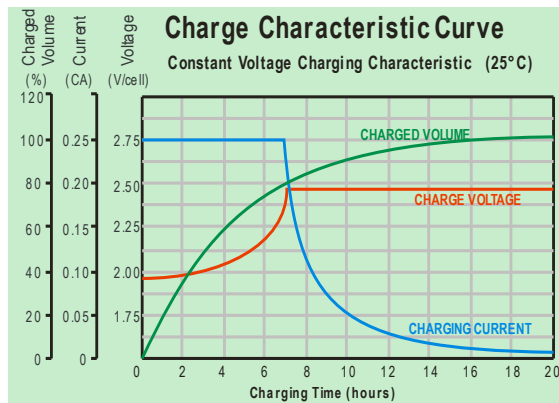
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Graphs



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