NM12-220L

12V 220Ah / 10hr rate

BATTERY Genergy

Introduction

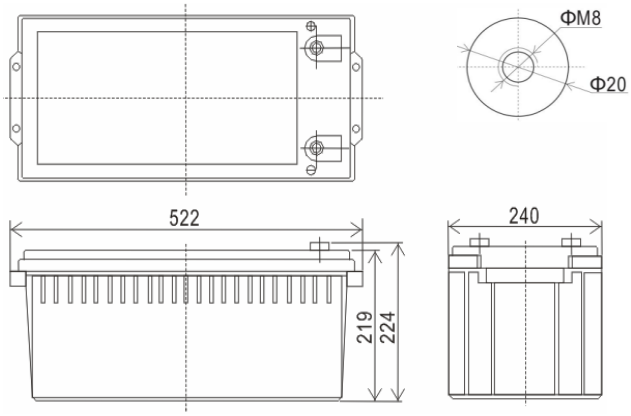
Genergy NML (Long life) Series is designed for solar and renewable energy system. GEL electrolyte and AGM seperator are applied in this series with feature of long service life. It is widely used in solar and wind power system, UPS and power utility.

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

Battery Picture & Terminal Layout

Terminal Type: T13



Electrical Specification

Design floating Life @ 20°C (68°F)	10 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 11.9A to 1.75Vpc	238 Ah
10 hour rate 22.67A to 1.75Vp	226.7 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	3.5mΩ
Max. Discharge Current @ 25°C /77°F	2200 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	58 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).

Dimension & Weight

Dimension (± 2mm)				Weight
Length	Width	Height	Total Height	(± 2%)
522 mm	240 mm	219 mm	224 mm	61.5 kg
20.6 inch	9.4 inch	8.6 inch	8.8 inch	135.6 lbs

Typical Applications

- Solar/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	542.7	414.3	359.5	304.7	260.8	234.1	218.3	202.5	187.2	176.1	167.6	89.87	65.00	54.21	45.12	23.68	12.43
1.65	515.3	393.4	341.7	290.0	249.2	223.5	208.8	194.1	179.8	169.8	162.4	86.83	62.54	52.05	43.27	23.11	12.14
1.70	494.1	377.1	328.2	279.2	241.2	216.1	202.0	187.8	174.2	164.7	157.9	84.21	61.09	50.83	42.26	22.89	12.02
1.75	471.3	359.7	313.5	267.4	232.1	208.0	194.8	181.6	168.9	160.4	154.5	82.24	59.75	49.71	41.37	22.67	11.90
1.80	446.9	341.2	298.1	255.1	222.9	199.6	187.2	174.8	162.8	155.1	150.0	79.62	58.30	48.49	40.37	22.29	11.70

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	942.5	719.5	633.2	546.9	472.7	430.0	399.4	368.9	339.0	314.6	294.7	161.66	118.25	100.43	83.30	46.34	24.45
1.65	909.1	693.9	612.0	530.0	460.1	418.6	389.2	359.8	331.1	307.8	289.1	158.38	117.13	99.31	82.19	45.89	24.45
1.70	874.1	667.3	589.2	511.2	445.3	405.3	377.4	349.6	322.4	300.6	283.4	155.11	114.90	97.58	80.96	45.00	24.12
1.75	836.1	638.2	564.6	490.9	429.3	390.9	364.6	338.2	312.6	292.3	276.7	151.18	111.56	95.19	79.51	44.67	23.68
1.80	795.1	606.9	538.0	469.1	412.2	375.3	350.5	325.7	301.6	282.9	268.8	146.59	108.55	92.79	77.73	44.22	23.46

Subject to revision without notice. Please contact our sales representatives for latest version.

Web: www.genergybattery.com | **Email:** sales@genergybattery.com

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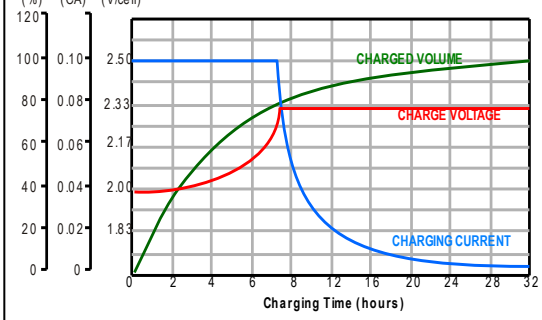
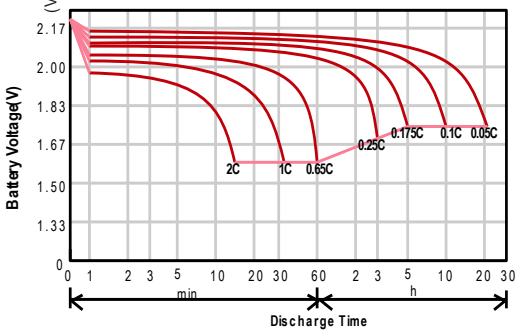
Graphs

Charge Characteristic Curve

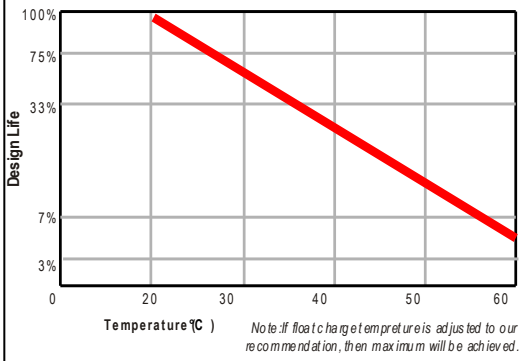
Constant Voltage Charging Characteristic (25°C)



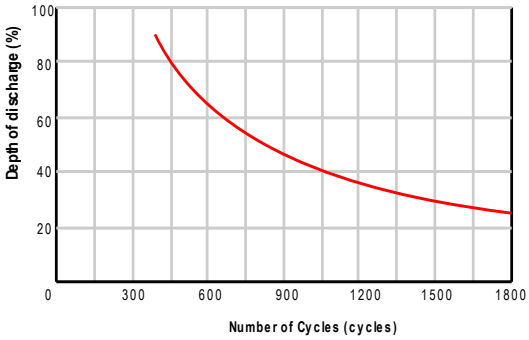
Discharge Characteristic (25°C)



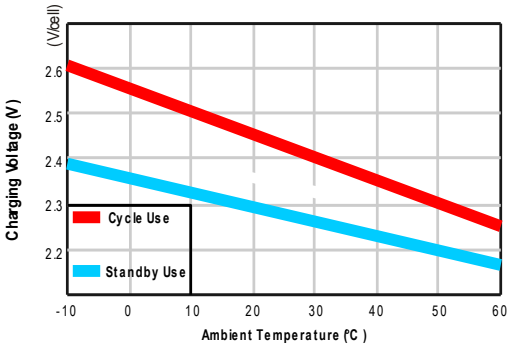
Temperature Effects On Float Life



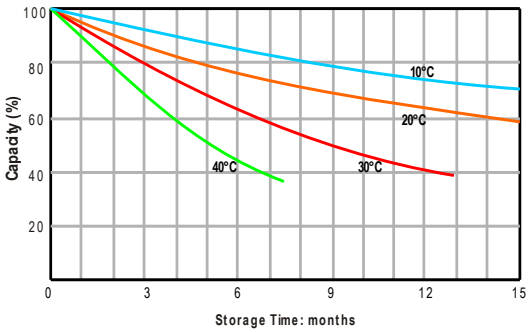
Cycle Service Life V.S. Depth Of Discharge



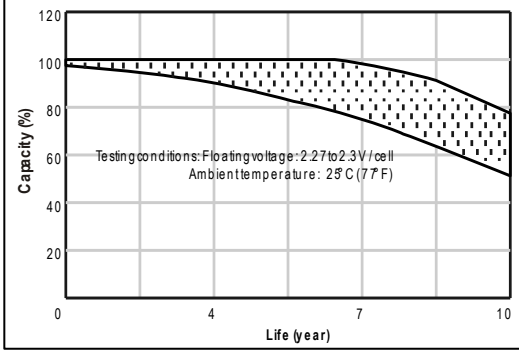
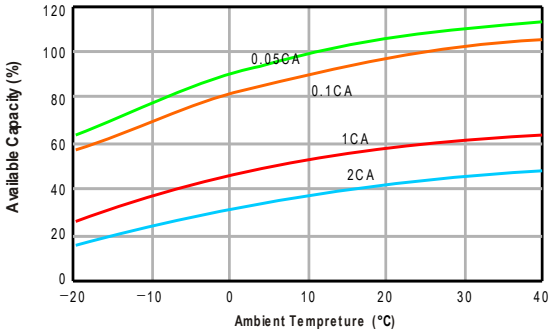
Charging Voltage V.S. Temperature



Self-Discharge Characteristic



Life Characteristics Of Standby Use



Temperature Effects On Capacity