

# NM12-100L

## 12V 100Ah



### Introduction

**E-GUARD NML (Long life) Series** is designed for solar and renewable energy systems. GEL electrolyte and AGM separator are applied in this series which features long service life. It is widely used in solar and wind power system, UPS and power utility.

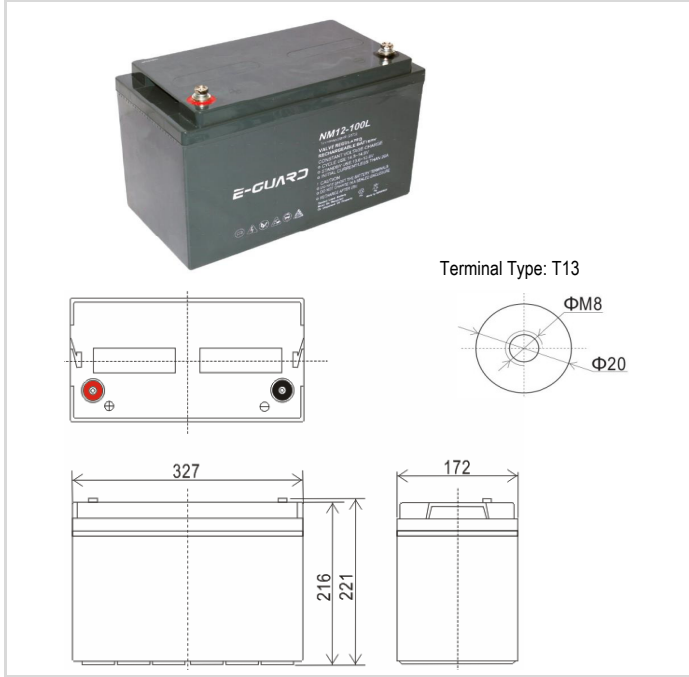
### Battery Features

- 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 5.41A to 1.75Vpc	108.2 Ah
10 hour rate 10.54A to 1.75Vpc	105.4 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	5mΩ
Max. Discharge Current @ 25°C /77°F	1000 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	27 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

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
327 mm	172 mm	216 mm	221 mm	30.5 kg
12.9 inch	6.8 inch	8.5 inch	8.7 inch	67.2 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	247.8	189.2	163.4	137.7	116.5	106.5	99.3	92.7	86.7	80.7	77.2	41.85	29.77	24.73	20.22	10.80	5.46
1.65	235.3	179.6	156.0	132.4	113.4	103.7	96.8	90.6	84.9	79.3	76.1	41.04	29.20	24.21	19.75	10.75	5.46
1.70	225.6	172.2	149.9	127.5	109.8	100.2	93.7	87.7	82.3	77.0	74.0	39.65	28.53	23.64	19.29	10.65	5.46
1.75	215.2	164.3	143.2	122.1	105.6	96.4	90.3	84.8	79.8	75.0	72.5	38.55	27.91	23.12	18.87	10.54	5.41
1.80	204.1	155.8	136.1	116.5	101.4	92.6	86.8	81.6	77.0	72.5	70.4	37.17	27.23	22.55	18.40	10.27	5.35

### 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	430.4	328.5	289.1	249.7	217.7	199.4	185.2	172.2	160.1	148.5	140.7	77.36	56.29	46.71	38.47	21.55	11.37
1.65	415.1	316.9	279.5	242.0	212.0	194.1	180.5	168.0	156.4	145.3	138.1	75.79	55.77	46.19	37.95	21.35	11.37
1.70	399.2	304.7	269.1	233.4	205.2	188.0	175.0	163.2	152.3	142.0	135.5	73.96	54.74	45.39	37.38	20.93	11.22
1.75	381.8	291.5	257.8	224.2	197.9	181.3	169.1	157.9	147.7	138.2	132.3	71.61	53.18	44.27	36.70	20.77	11.01
1.80	363.1	277.1	245.7	214.2	190.1	174.1	162.5	152.0	142.6	133.8	128.7	69.07	51.78	43.16	35.87	20.57	10.91

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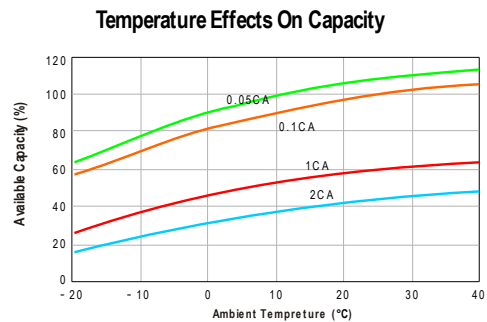
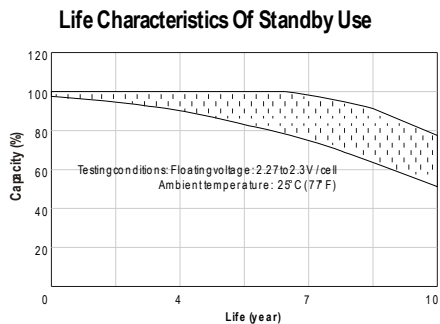
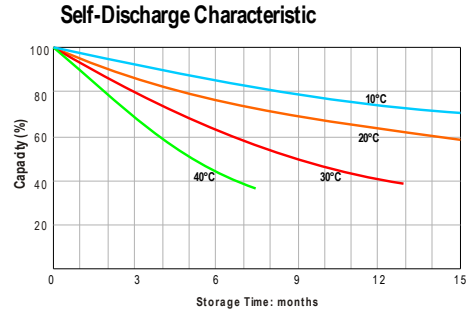
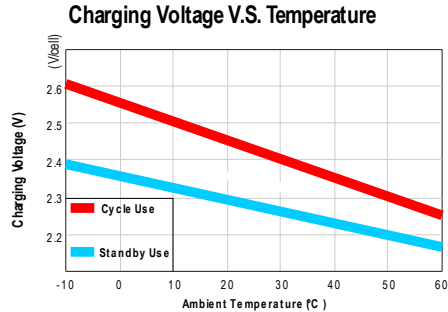
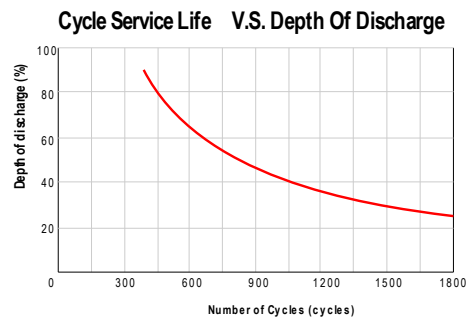
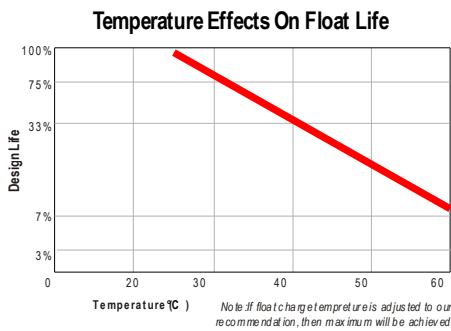
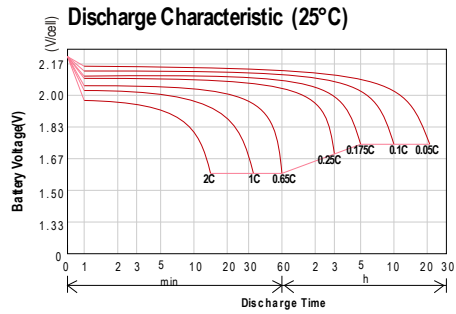
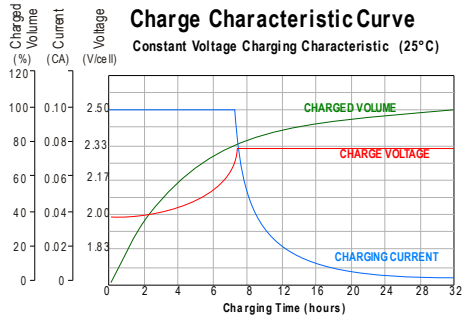
Web: [www.enervision.co.za](http://www.enervision.co.za) | Email: [sales01@enervision.co.za](mailto:sales01@enervision.co.za) | Telephone: 0861 111 270

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