

# NL2-100

2V100Ah / 10hr rate



### Introduction

**Genergy NL (2V) series** is designed for standby use with 15-year design life in float service. The series battery is featured of high consistency, excellent performance and reliable standby service life. It is widely applied in Telecoms, Power Utility, Renewables, UPS/EPS, and medical equipment.

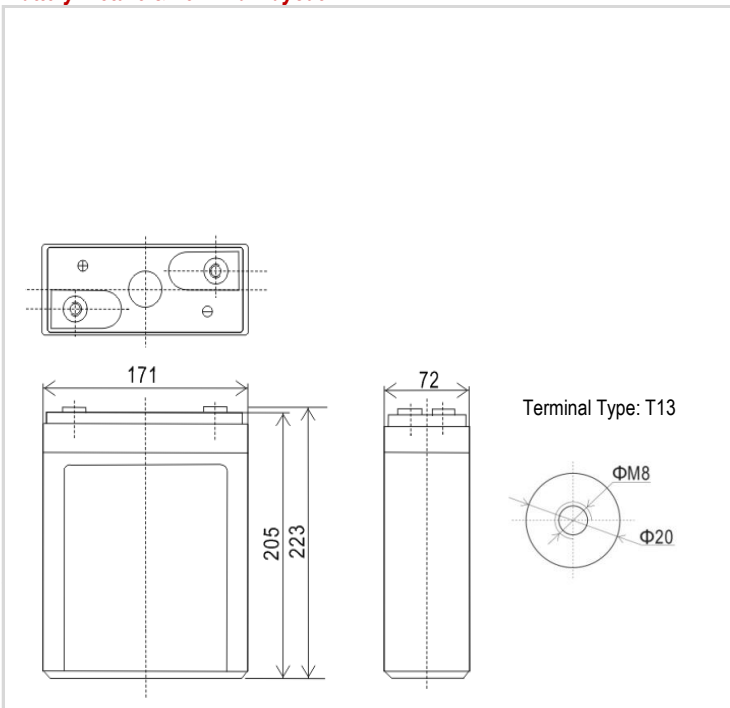
### Key Features

- Valve regulated maximum internal pressure 2.5 PSI
- 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 @ 25°C (77°F)	15 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 5.37A to 1.75Vpc	107 Ah
10 hour rate 10.24A to 1.75Vpc	102Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.9mΩ
Max. Discharge Current @ 25°C /77°F	350 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.45 ~ 2.49V
Max. Current	19 A
Standby Use	2.25 ~ 2.30V
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)			Total Height	Weight (± 2%)
	Width	Height			
171 mm	72 mm	205 mm	223 mm	5.9 kg	
6.7 inch	2.8 inch	8.1 inch	8.8 inch	13.0 lbs	

### Typical Applications

- Telecommunications
- Power Utility
- Solar energy system
- 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	194.7	148.6	133.6	118.5	104.7	96.4	89.3	82.3	77.6	73.5	70.6	39.54	29.43	24.60	20.98	10.75	5.63
1.65	185.0	141.2	127.1	112.9	100.0	92.1	85.5	78.9	74.6	70.9	68.5	38.27	28.59	24.02	20.64	10.58	5.54
1.70	175.4	133.9	120.6	107.3	95.3	87.8	81.6	75.3	71.5	68.1	66.1	36.91	27.75	23.43	20.31	10.41	5.46
1.75	165.5	126.3	113.9	101.4	90.2	83.2	77.4	71.5	68.1	65.2	63.6	35.44	26.58	22.59	19.80	10.24	5.37
1.80	155.6	118.7	107.2	95.6	85.2	78.6	73.2	67.8	64.8	62.3	61.1	33.98	25.40	21.75	19.30	10.08	5.29

### 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	313.3	239.2	222.3	205.5	191.7	177.0	165.5	153.9	145.1	137.9	132.2	75.83	57.83	48.96	40.79	21.50	11.25
1.65	302.3	230.8	213.6	196.4	182.3	168.4	157.5	146.7	138.6	132.1	127.2	72.90	56.31	47.95	40.29	21.16	11.08
1.70	279.2	213.1	198.6	184.0	172.6	159.4	149.3	139.2	131.9	126.2	122.0	69.87	54.80	46.86	39.61	20.83	10.92
1.75	262.0	200.0	186.6	173.2	162.8	150.4	141.0	131.7	125.0	120.1	116.6	66.75	53.12	45.68	38.94	20.49	10.75
1.80	244.7	186.8	174.4	162.1	152.9	141.2	132.5	123.9	117.9	113.7	110.9	63.43	49.60	43.67	38.44	20.15	10.58

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Web: [www.genergybattery.com](http://www.genergybattery.com) | Email: [sales@genergybattery.com](mailto:sales@genergybattery.com)

Version NO.20190618

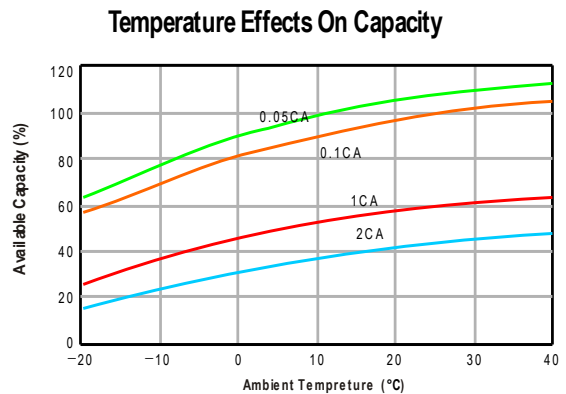
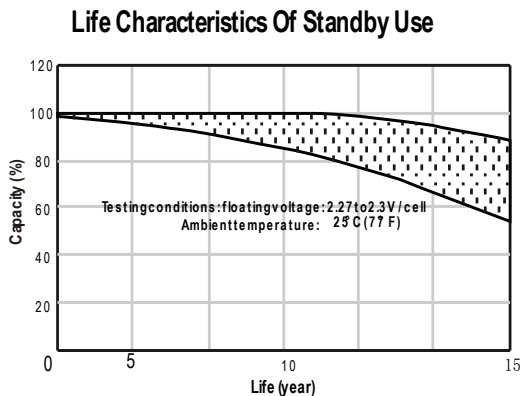
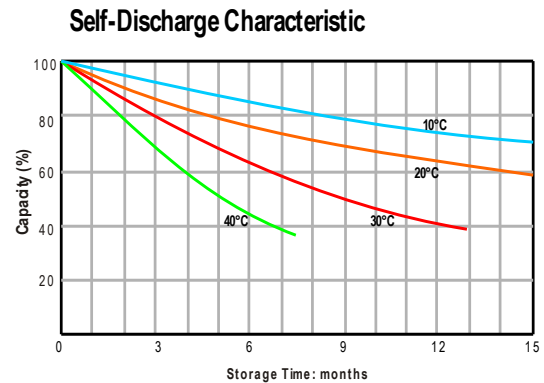
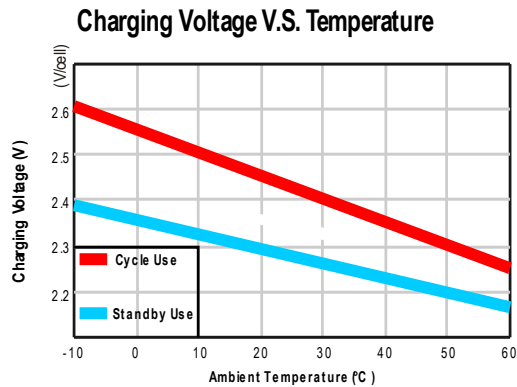
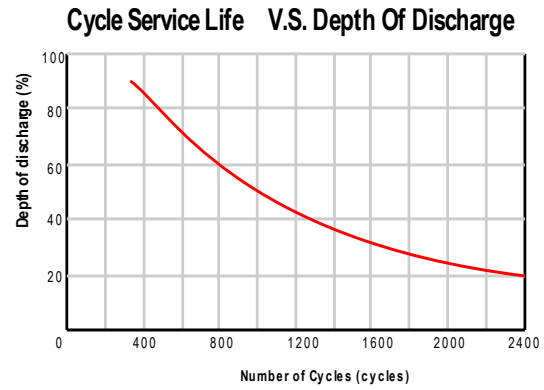
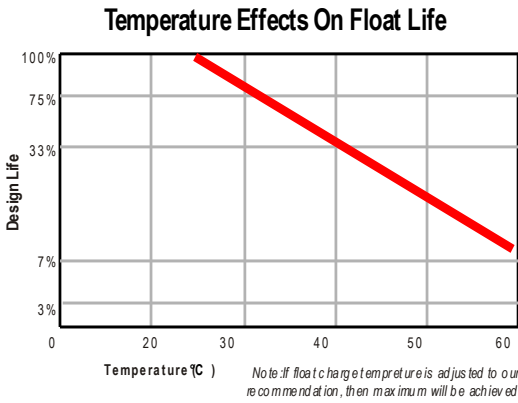
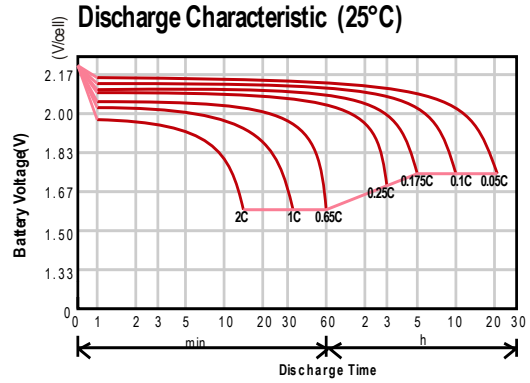
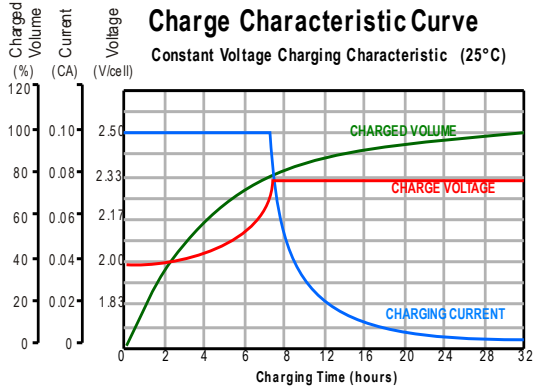
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**Graphs**



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