

NL2-200

2V 200Ah



Introduction

E-Guard 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 10.05A to 1.75Vpc	215Ah
10 hour rate 19.15A to 1.75Vpc	205 Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F)	0.85mΩ
Max. Discharge Current @ 25°C /77°F	700 A (5S)

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

Cycle Use	2.45 ~ 2.49V
Max. Current	40 A
Standby Use	2.25 - 2.30V

Operating Temperature Range -30 ~ 50°C

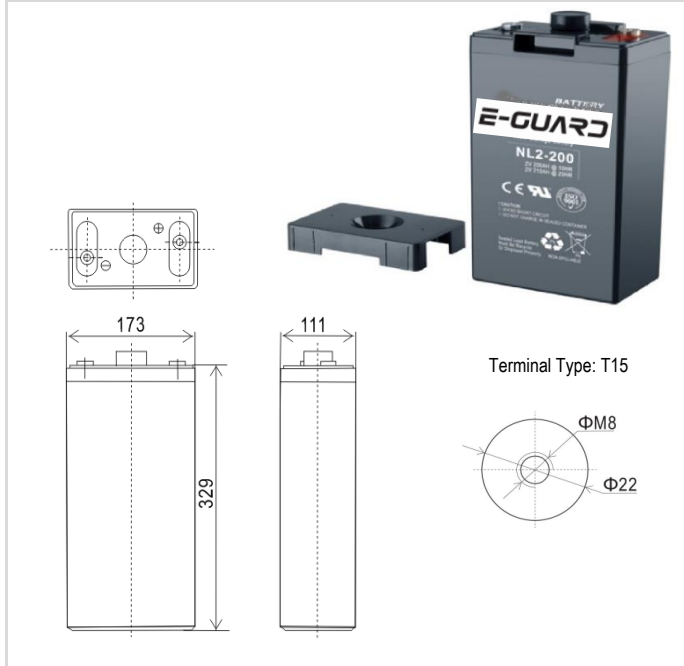
Notes: battery voltage must be adjusted according to temperature.

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)			Total Height	Weight (± 2%)
	Width	Height	Total Height		
173 mm	111 mm	329 mm	365 mm	13 kg	
6.8 inch	4.4 inch	13.0 inch	14.4 inch	28.7 lbs	

Typical Applications

- Telecommunications
- Power Utility
- Data Center
- 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	389.9	297.7	267.5	237.3	208.4	193.1	178.9	164.8	153.1	144.5	138.9	78.68	58.94	49.27	40.01	21.53	11.27
1.65	370.5	282.9	254.5	226.1	199.0	184.5	171.2	157.9	147.0	139.3	134.6	76.13	57.26	48.10	39.33	21.19	11.10
1.70	351.2	268.1	241.5	214.9	189.5	175.8	163.3	150.8	140.7	133.8	129.8	73.40	55.58	46.92	38.66	20.85	10.93
1.75	331.3	252.9	228.0	203.1	179.5	166.6	154.9	143.3	134.0	128.0	124.8	70.46	53.22	45.24	37.65	20.52	10.76
1.80	311.5	237.8	214.6	191.4	169.4	157.3	146.5	135.7	127.3	122.1	119.8	67.53	50.87	43.55	36.64	20.18	10.59

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

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60	627.4	478.9	445.2	411.4	380.8	354.5	331.4	308.2	287.8	269.0	253.8	149.33	114.11	98.04	82.67	43.05	22.53
1.65	605.4	462.1	427.7	393.3	362.0	337.2	315.5	293.8	274.8	257.5	243.7	143.47	111.08	96.02	81.67	42.38	22.20
1.70	559.1	426.8	397.7	368.5	342.5	319.2	299.0	278.8	261.3	245.6	233.3	137.41	108.05	93.84	80.32	41.70	21.86
1.75	524.7	400.6	373.7	346.8	322.9	301.1	282.4	263.7	247.7	233.3	222.5	131.15	104.69	91.48	78.97	41.03	21.53
1.80	489.9	374.0	349.3	324.7	303.1	282.7	265.4	248.0	233.4	220.5	211.1	124.50	97.63	87.45	77.97	40.36	21.19

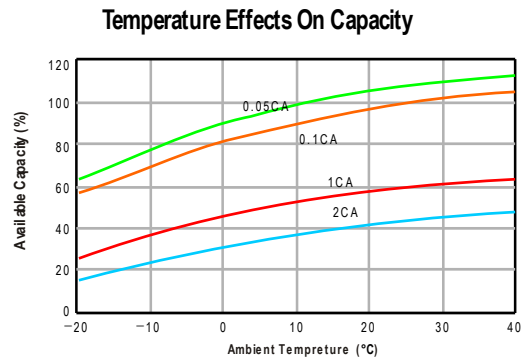
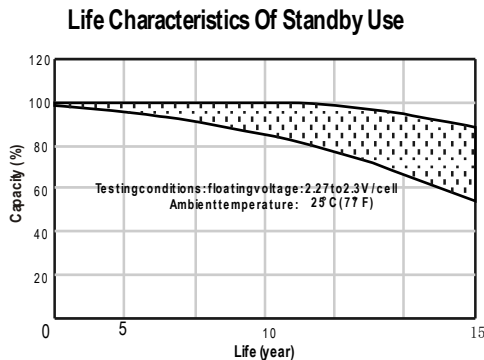
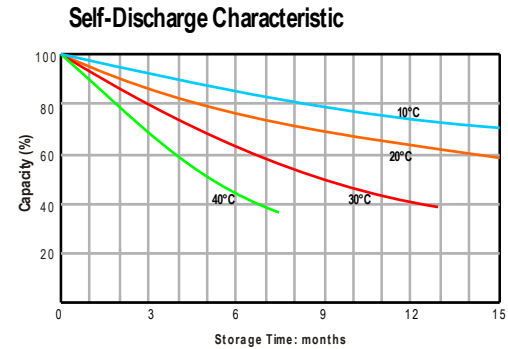
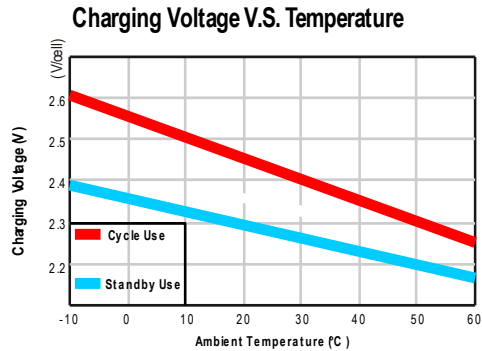
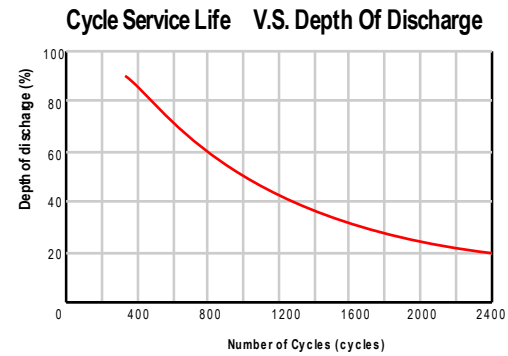
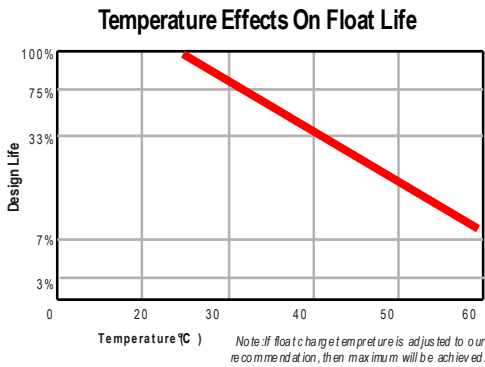
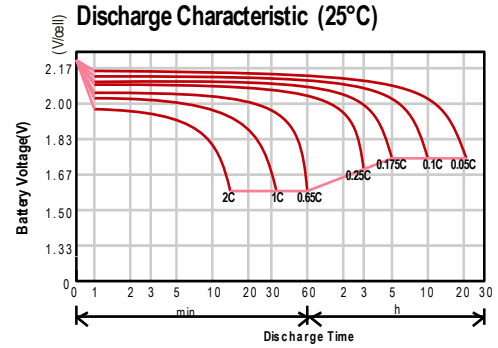
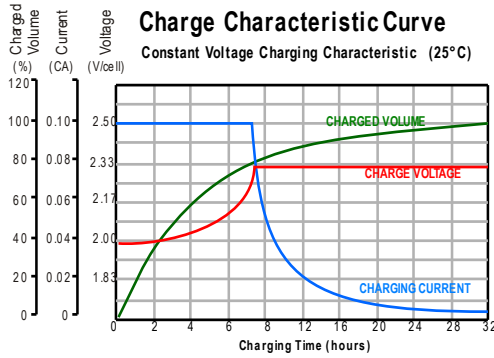
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Graphs



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