



LNT Series

Version: 4

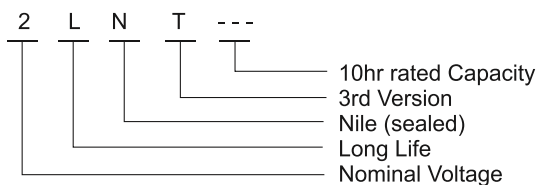
Main Applications

- Communication Exchange and Transfer system
- Mobile Communication system
- Power plant and power Transfer system
- Navigation signal system
- Solar Energy system
- Railway, Broadcast and Television system
- Emergency Lighting system
- Medical equipment

Product Characteristics

- Nominal Voltage: 2V
- Max Charging Current Allowed: $0.2C_{10}A$
- Electrolyte: $1.290g/cm^3$
- Cycle Life: 1200(at 80% DoD-25°C)
- Float Voltage: 2.25V/cell(25°C)
- Equalization Voltage: 2.35V/cell(25°C)
- Self discharge: <2% per month 68°F(20°C)
- Terminal Torque: $15 \pm 1.0N.m$
- Temperature: -15°C To 45°C
- Container Material: ABS (V0 optional)

Indication of Type



Technical features

- AGM Technology is applied.
- Cycle Life: 1200(at 80% DoD-25°C)
- Reliable seal performance, no acid spillage, recombination efficiency reach 99%
- Initial capacity above 100%, the remaining capacity above 94% after storage for 3 months (25°C)
- Flexible connectors and convenient installation

Range summary

The LNT range of VRLA batteries offers outstanding performance. Built to the highest standards and compliant with the latest IEC60896-21/22 standard this range also offers 100% capacity out-of-the-box and is capable of handling deep discharges for complete peace of mind. The use of flexible connectors and the ability to be installed both horizontally and vertically allows for multiple installation possibilities.

General features

- Better discharge characteristic than normal VRLA batteries.
- Non-spillable construction design.
- Safety valve installation for explosion proof.
- Higher safety & reliable construction.
- Extra durability and deep cycle ability for heavy demand applications.
- Low self-discharge characteristic.
- Flexibility design for multiple installation.

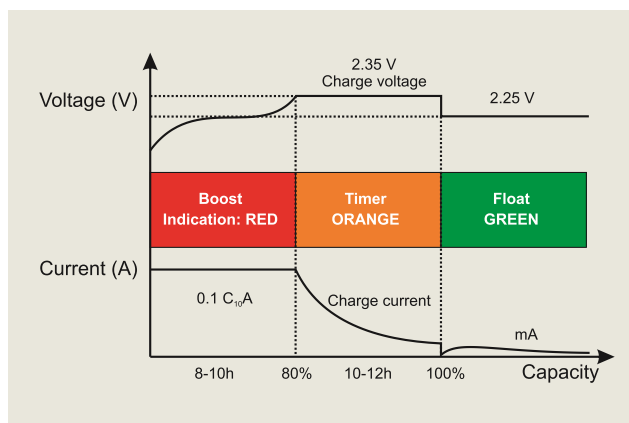


Technical Information

Type	Nominal Voltage (V)	Nominal Capacity (25°C)	Float Voltage (25°C)	Equalize Voltage (25°C)	Normal Charge Current (25°C)	Max Charge Current (25°C)	Internal Resistant (mΩ)	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Weight (kg)
2LNT100	2	100	2.25	2.35	10A	20A	1.02	171	72	205	210	5.90
2LNT200S	2	200			20A	40A	0.66	120	200	366	385	16.00
2LNT200	2	200			20A	40A	0.66	94.5	184.5	360.5	372	14.30
2LNT250S	2	250			25A	50A	0.54	120	200	366	385	19.00
2LNT250	2	250			25A	50A	0.54	109	184.5	360.5	372	17.00
2LNT300	2	300			30A	60A	0.47	123	184.5	360.5	372	19.00
2LNT350S	2	350			35A	70A	0.47	166	184.5	360.5	372	23.00
2LNT350	2	350			35A	70A	0.47	146	183	359	371	23.00
2LNT420	2	420			42A	84A	0.35	166	184.5	360.5	372	26.00
2LNT500	2	500			50A	100A	0.33	194.5	184.5	360.5	372	31.00
2LNT600	2	600			60A	120A	0.28	223	184.5	360.5	372	37.00
2LNT800	2	800			80A	160A	0.21	154	229	555	566	52.00
2LNT1000	2	1000			100A	200A	0.18	186	229	555	566	62.00
2LNT1200	2	1200			120A	240A	0.17	225	229	555	566	75.00
2LNT1500	2	1500			150A	300A	0.14	265.5	229	555	566	92.00
2LNT2000	2	2000			200A	400A	0.11	349	233	555	566	121.00
2LNT3000	2	3000			300A	600A	0.1	496	363	361.7	373.5	175.00

Charging Curve

Charge characteristics of 100% DoD With Current of $0.1C_{10}$ A and limit Voltage of 2.35V/cell (25°C)



Float and equivalent voltage at different temperature

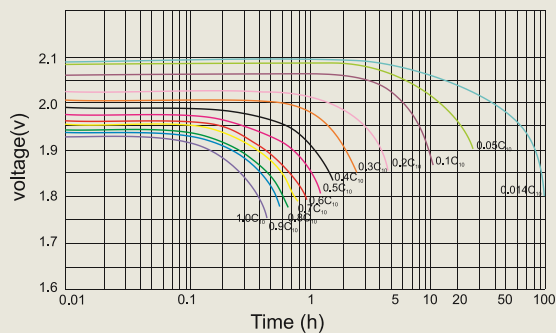
Temperature(°C)	Float Voltage (V/Cell)	Equivalent Voltage (V/Cell)
1~5	2.30	2.45
6~10	2.29	2.43
11~15	2.28	2.40
16~20	2.27	2.38
21~25	2.25	2.35
26~30	2.24	2.33
31~35	2.23	2.30
36~40	2.20	2.28

NILE BATTERY

LONG LIFE
SINGLE CELLS

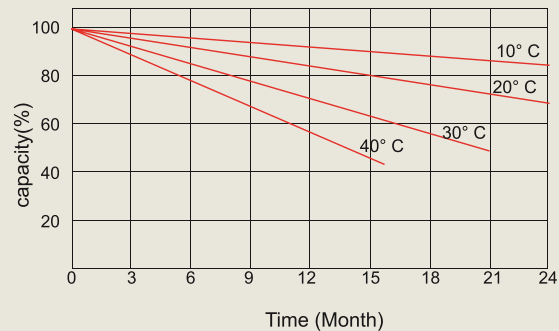


Discharge performance Curves
at Different Discharge Rates(25°C)

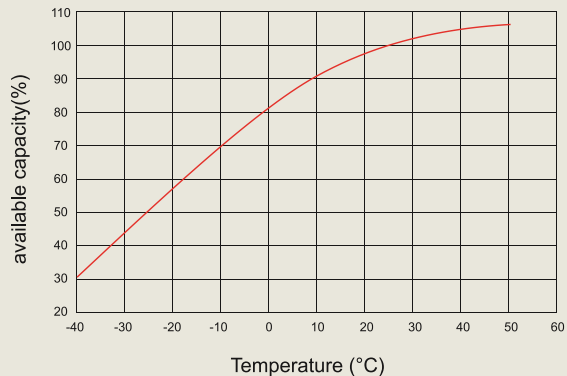


Self Discharge

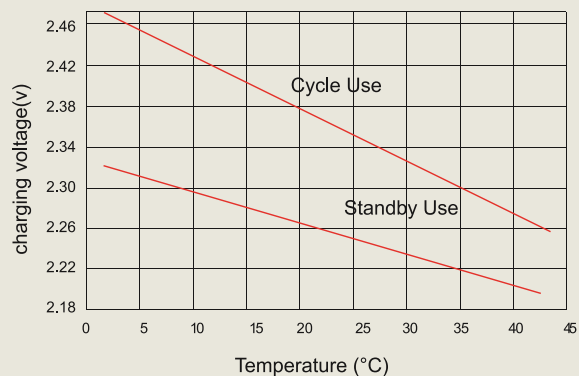
Storage Time VS Residue Capacity



Available Capacity (10h rate and Voltage 1.80V)
VS Ambient Temperature



Float Voltage/Equivalent Voltage
VS Temperature



NILE BATTERY

**LONG LIFE
SINGLE CELLS**

Technical Information

Battery Type	Discharge Current Rates-Amperes (25°C)			
	C1	C3	C5	C10
2LNT100	65.20	26.70	18.20	10.30
2LNT200	130.70	53.50	36.00	20.60
2LNT250	169.90	69.60	46.80	26.70
2LNT300	196.00	80.30	54.10	30.80
2LNT350	231.00	94.60	63.70	36.30
2LNT420	261.40	107.10	72.10	43.10
2LNT500	326.70	133.80	90.10	51.40
2LNT600	392.00	160.60	108.10	61.70
2LNT800	521.90	218.90	145.70	82.40
2LNT1000	652.40	273.60	182.20	103.00
2LNT1200	783.00	328.00	219.00	124.00
2LNT1500	978.60	410.40	273.20	154.40
2LNT2000	1304.80	547.10	364.30	205.90
2LNT3000	1961.10	822.30	547.80	309.60
Associated End Voltages	1.60	1.70	1.75	1.80

Construction

