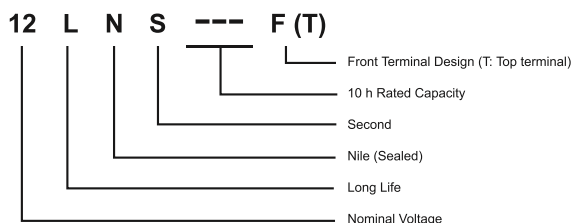


NILE BATTERY



Front Access VRLA battery

Indication of Type



Main applications

- Telecom standby and cyclical applications
- UPS
- Power system

Range summary

The LNSF range of front access VRLA batteries has been specifically designed for applications 19" and 23" cabinets, especially telecom.

Reliability is assured with the patented post seal and a state-of-the-art design developed to comply with the latest IEC, BS and Telcordia standards. A 12+ Years design life and centralized venting system add to the suitability and flexibility of this superior range.

Compliant standards

- IEC 60896-21/22
- BS 6290 part 4
- Telcordia SR-4228
- Eurobat guide
- UL
- Manufactured under system ISO9001

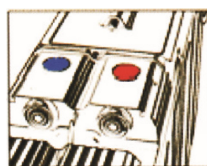
Products characteristics

- Recommended float charge voltage for 12V battery. 2.25Vpc at 68°F(25°C)
- Self discharge rate: <2%pre month at 68°F(25°C)
- Design life more than 12 years at 68°F(25°C)
- Shelf life: 6 months at 68°F(25°C)
- Valve regulated system, no water addition needed
- Terminal Hardware Torque: 10±1.oN m
- Container Material: ABS (v0 optional)



Technical features

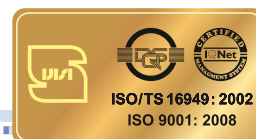
- Real front-access terminal connections for fast and easy installation and maintenance
- Easy on easy off multi-purpose design terminal protector
- Suitable for 19", 23" racking or cabinet
- Proven excellent special lead-tin-calcium formula alloy for grids and plates
- Microporous glass mats in low resistance as separator
- Flame retardant ABS material container and cover compliant with UI94 V-0
- Self-regulating pressure relief valve
- 12+ years expectant life under full float service at 68°F(25°C)



- > The terminal protector for LNSF batteries are designed with special probe hole allowing safe and easier voltage testing and suitable for all connections means.
- > The specially centralized venting system ensures the small gas be vented out of the closed cabinet

NILE LNSF series battery specification

Cell Type	Nominal Voltage (V)	Rated Capacity C ₁₀ (Ah)	Dimension(mm)			Height with Terminal	Weight (kg)
			Length	Width	Height		
12LNS50F	12	50	390	105	200	200	21.00
12LNS85F	12	85	390	105	270	270	30.50
12LNS90F	12	90	390	105	270	270	31.00
12LNS100F	12	100	390	105	287	287	33.20
12LNS105F	12	105	390	105	287	287	33.50
12LNS125F	12	125	558	125	270	270	45.00
12LNS150F	12	150	558	125	270	270	52.00
12LNS155F	12	155	550	110	285	285	44.00
12LNS155F	12	155	558	125	270	270	52.50
12LNS100T	12	100	390	105	287	287	33.00
12LNS180T	12	180	558	125	316	316	60.00
12LNS200T	12	200	558	125	316	316	61.50

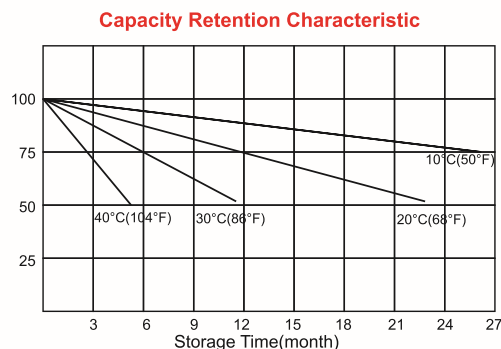
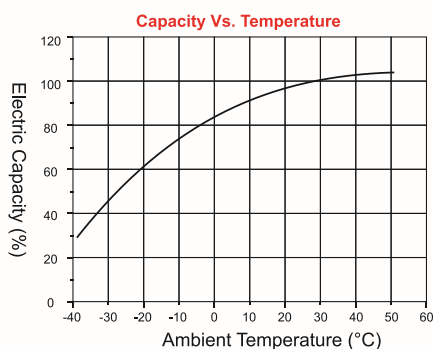


NILE BATTERY

Discharge Current Rates-Amperes (25°C)

Battery Type	C1	C3	C5	C6	C10	C20
12LNS50F	28.00	15.00	9.70	8.30	5.00	2.70
12LNS85F	44.50	23.50	15.50	13.50	8.00	4.35
12LNS90F	46.75	24.00	16.00	14.00	9.00	4.40
12LNS100F	55.00	27.50	18.50	15.50	10.00	5.15
12LNS105F	57.75	28.00	19.00	16.00	10.50	5.20
12LNS125F	68.75	32.00	24.00	20.00	12.50	6.60
12LNS150F	82.50	35.50	29.50	24.50	15.00	8.05
12LNS155F	85.25	40.00	30.00	25.00	15.50	8.10
12LNS100T	55.00	28.00	19.00	16.00	10.00	5.20
12LNS180T	99.00	51.10	34.10	28.40	18.00	9.50
12LNS200T	110.00	55.60	37.10	31.20	20.00	10.50
Associated End Voltages	1.60	1.67	1.70	1.75	1.80	1.85

Characteristics curve



Internal resistance and short circuit current (25°C)

Battery Type	Internal resistance (mΩ)	Short circuit current (A)
12LNS50F	8.87	1407
12LNS85F	6.47	1864
12LNS90F	6.47	1864
12LNS100F	6.31	1979
12LNS105F	6.31	1979
12LNS125F	5.70	2229
12LNS150F	4.27	2906
12LNS155F	4.27	2906
12LNS100T	6.31	1979
12LNS180T	3.88	3200
12LNS200T	3.50	3900

Note. Short circuit current Will decrease voltage of the battery to 0V. and damage the internal components of the battery.

Charging Procedures

Application	charge Voltage (V /Cell)			Max. Charge Current (A)
	Temperature (°C)	Set Point	Allowable Range	
Cycle	25	2.40	2.35~2.45	0.25C
Standby	25	2.25	2.23~2.27	

