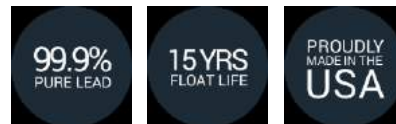


NSB 125TT HT RED

Pure Lead - High Temp



The NSB HTRED Battery[®] delivers long life in unreliable grid conditions even at high temperatures.

- Pure lead electrochemistry greatly increases temp and corrosion resistance while reducing component aging
- Thin plates deliver large surface area high power density and low resistance
- Design life 15+ years at 20°C (68°F)
- Extra long life at high temp operation 40°C (104°F)
- EUROBAT design life definition: Long Life (12+ years)
- High cyclic performance
- Fast recharging
- Shelf life of up to 24 months
- Operating temperature range -40°C to +65°C (-40°F to 149°F)
- State -of-the-art automated manufacturing ensures consistency and reliability
- Advanced 3 stage terminal design to ensure leak -free operation - brass terminals provide maximum performance
- High modulus Polyphenylene Oxide (PPO) plastic materials designed to withstand extended elevated operating temperatures and maintain high battery compression essential for reliable operation
- Non -halogenated thermally sealed plastic casing
- Approved as non-hazardous cargo for ground sea and air transport DOT 49CFR173.159(d), (i) and (ii)

NSB 125TT HT RED

Nominal Technical Specifications

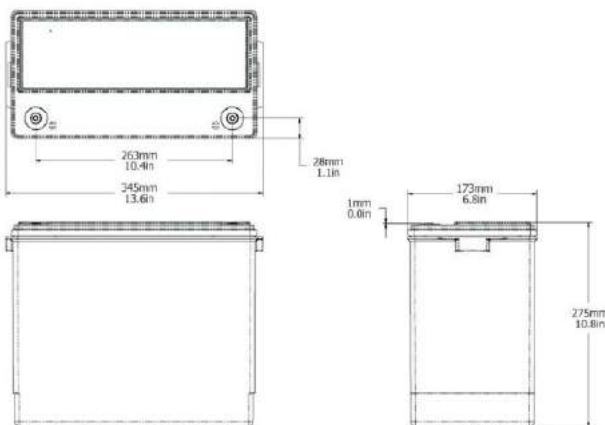
Dimensions

Height	275 mm	Width	173 mm
Length	345 mm	Weight	44 kg

Electrical

Terminal	Female M6 x 1.0
Terminal torque	8.0 Nm (71 in -lbs)
1 hr capacity to 1.70VPC @ 20/25°C (68/77°F)	96 / 100 Ah
3 hr capacity to 1.75VPC @ 20/25°C (68/77°F)	114 / 117 Ah
8 hr capacity to 1.75VPC @ 20/25°C (68/77°F)	125 / 127 Ah
10 hr capacity to 1.80VPC @ 20/25°C (68/77°F)	127 / 129 Ah
Float voltage @ 20/25°C (68/77°F)	2.28 / 2.27 VPC
Impedance (1Khz)	2.6 m Ω @ 25°C (77°F)
Conductance	2065 S
Short circuit current	3200 A
Operation temperature range	-40°C to +65°C
Nominal voltage	12 V

Technical Drawing



All NorthStar batteries are compliant with: Telcordia SR4228, IEC 60896; Bellcore GR-63-Core, Issue 1; British, German, and Russian telecom standards; UL approved and UN2800 certified. NorthStar is registered to ISO 9001 and ISO 14001.

NSB 125 HT RED Battery[®]

Discharge tables @ 20°C (68°F)



Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	408.9	469.6	530.1	588.3	621.0	641.6	687.9	724.9	750.9
5	0.08	327.8	368.2	407.4	444.0	464.2	476.8	504.3	525.4	539.3
10	0.17	250.6	275.3	298.7	320.0	331.6	338.7	353.9	365.3	372.3
15	0.25	206.3	223.5	239.5	253.9	261.6	266.3	276.2	283.5	287.8
20	0.33	176.9	189.7	201.5	212.0	217.5	220.9	228.0	233.0	236.0
30	0.50	139.5	147.4	154.6	161.0	164.3	166.2	170.4	173.2	174.8
45	0.75	107.4	112.0	116.1	119.6	121.4	122.4	124.6	126.1	126.8
60	1	88.1	91.0	93.5	95.7	96.8	97.4	98.7	99.5	99.9
120	2	52.3	53.0	53.5	54.0	54.2	54.3	54.6	54.7	54.6
180	3	37.6	37.7	37.8	37.9	37.9	38.0	38.0	37.9	37.8
240	4	29.4	29.4	29.4	29.3	29.3	29.3	29.2	29.1	29.0
300	5	24.2	24.1	24.0	23.9	23.9	23.8	23.8	23.7	23.6
480	8	15.8	15.7	15.6	15.5	15.4	15.4	15.4	15.3	15.2
600	10	12.8	12.7	12.6	12.6	12.5	12.5	12.5	12.4	12.4
1200	20	6.5	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.6

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	13.6	15.7	17.7	19.6	20.7	21.4	22.9	24.2	25.0
5	0.08	27.3	30.7	33.9	37.0	38.7	39.7	42.0	43.8	44.9
10	0.17	41.8	45.9	49.8	53.3	55.3	56.4	59.0	60.9	62.1
15	0.25	51.6	55.9	59.9	63.5	65.4	66.6	69.1	70.9	72.0
20	0.33	59.0	63.2	67.2	70.7	72.5	73.6	76.0	77.7	78.7
30	0.50	69.7	73.7	77.3	80.5	82.1	83.1	85.2	86.6	87.4
45	0.75	80.6	84.0	87.0	89.7	91.0	91.8	93.5	94.6	95.1
60	1	88.1	91.0	93.5	95.7	96.8	97.4	98.7	99.5	99.9
120	2	104.6	105.9	107.1	108.0	108.4	108.7	109.1	109.3	109.3
180	3	112.7	113.2	113.5	113.8	113.8	113.9	113.9	113.7	113.7
240	4	117.7	117.6	117.4	117.2	117.1	117.0	116.8	116.5	116.5
300	5	121.0	120.5	120.1	119.6	119.4	119.2	118.8	118.4	118.4
480	8	126.3	125.5	124.7	124.0	123.6	123.4	122.8	122.3	122.3
600	10	128.1	127.2	126.5	125.8	125.4	125.2	124.7	124.2	124.2
1200	20	130.6	130.8	130.9	131.0	131.0	131.1	131.1	131.1	131.1

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	763.7	853.5	939.3	1018.1	1060.7	1086.8	1142.4	1182.7	1205.9
5	0.08	619.9	681.0	738.6	791.1	819.4	836.7	873.8	901.1	917.6
10	0.17	478.8	516.8	552.2	584.0	600.9	611.3	633.4	649.5	659.3
15	0.25	396.6	423.3	447.9	469.8	481.4	488.4	503.4	514.3	520.8
20	0.33	341.6	361.6	380.0	396.1	404.6	409.8	420.7	428.5	433.1
30	0.50	270.9	283.6	295.0	304.9	310.1	313.2	319.7	324.3	326.9
45	0.75	209.9	217.3	223.8	229.5	232.4	234.1	237.6	240.0	241.3
60	1	172.8	177.5	181.7	185.2	187.0	188.0	190.2	191.6	192.2
120	2	103.6	104.7	105.7	106.5	106.8	107.0	107.4	107.5	107.5
180	3	69.5	70.3	70.9	71.5	71.7	71.8	72.1	72.2	72.2
240	4	58.7	58.7	58.7	58.6	58.6	58.5	58.4	58.2	58.2
300	5	48.4	48.3	48.2	48.0	47.9	47.9	47.7	47.5	47.5
480	8	31.7	31.6	31.4	31.3	31.2	31.1	31.0	30.8	30.8
600	10	25.8	25.6	25.5	25.4	25.3	25.3	25.2	25.1	25.1
1200	20	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2

NSB 125 HT RED Battery[®]

Discharge tables @ 25°C (77°F)



Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	453.7	521.1	588.3	652.8	689.2	712.0	763.4	804.5	833.3
5	0.08	356.9	400.9	443.6	483.5	505.4	519.1	549.0	572.1	587.2
10	0.17	269.2	295.8	320.9	343.9	356.3	363.9	380.3	392.5	400.1
15	0.25	220.0	238.4	255.4	270.8	279.0	284.0	294.6	302.4	307.0
20	0.33	187.7	201.3	213.8	225.0	230.8	234.4	241.9	247.3	250.4
30	0.50	147.0	155.4	163.0	169.7	173.2	175.3	179.6	182.6	184.3
45	0.75	112.5	117.3	121.6	125.3	127.1	128.3	130.5	132.1	132.8
60	1	91.8	94.9	97.5	99.8	100.9	101.6	103.0	103.8	104.2
120	2	54.0	54.7	55.3	55.8	56.0	56.1	56.4	56.5	56.4
180	3	38.6	38.8	38.9	39.0	39.0	39.0	39.0	39.0	38.9
240	4	30.1	30.1	30.1	30.0	30.0	30.0	29.9	29.8	29.7
300	5	24.7	24.6	24.5	24.4	24.4	24.4	24.3	24.2	24.1
480	8	16.0	15.9	15.8	15.7	15.7	15.7	15.6	15.5	15.5
600	10	13.0	12.9	12.8	12.8	12.7	12.7	12.6	12.6	12.6
1200	20	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	15.1	17.4	19.6	21.8	23.0	23.7	25.4	26.8	27.8
5	0.08	29.7	33.4	37.0	40.3	42.1	43.3	45.8	47.7	48.9
10	0.17	44.9	49.3	53.5	57.3	59.4	60.6	63.4	65.4	66.7
15	0.25	55.0	59.6	63.9	67.7	69.8	71.0	73.7	75.6	76.8
20	0.33	62.6	67.1	71.3	75.0	76.9	78.1	80.6	82.4	83.5
30	0.50	73.5	77.7	81.5	84.8	86.6	87.6	89.8	91.3	92.1
45	0.75	84.4	88.0	91.2	93.9	95.4	96.2	97.9	99.1	99.6
60	1	91.8	94.9	97.5	99.8	100.9	101.6	103.0	103.8	104.2
120	2	108.0	109.4	110.6	111.6	112.0	112.3	112.7	112.9	112.9
180	3	115.9	116.3	116.7	116.9	117.0	117.0	117.0	116.9	116.9
240	4	120.5	120.4	120.3	120.1	119.9	119.8	119.6	119.3	119.3
300	5	123.6	123.1	122.6	122.2	121.9	121.8	121.4	121.0	121.0
480	8	128.4	127.5	126.7	126.0	125.6	125.4	124.8	124.3	124.3
600	10	129.9	129.0	128.2	127.5	127.2	126.9	126.4	125.9	125.9
1200	20	131.6	131.7	131.9	132.0	132.0	132.0	132.1	132.1	132.1

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	847.5	947.1	1042.4	1129.8	1177.1	1206.0	1267.8	1312.5	1338.2
5	0.08	674.9	741.4	804.2	861.4	892.2	911.0	951.4	981.1	999.0
10	0.17	514.4	555.3	593.3	627.4	645.7	656.8	680.5	697.9	708.4
15	0.25	423.0	451.5	477.8	501.1	513.5	521.0	536.9	548.5	555.5
20	0.33	362.5	383.8	403.3	420.4	429.5	434.9	446.5	454.8	459.7
30	0.50	285.6	299.0	311.0	321.5	326.9	330.2	337.1	341.9	344.6
45	0.75	219.9	227.6	234.5	240.4	243.4	245.2	248.9	251.4	252.8
60	1	180.2	185.2	189.5	193.2	195.0	196.1	198.4	199.8	200.5
120	2	107.0	108.2	109.2	110.0	110.4	110.6	110.9	111.1	111.1
180	3	71.4	72.2	72.9	73.4	73.7	73.8	74.1	74.2	74.2
240	4	60.1	60.1	60.1	60.0	60.0	59.9	59.8	59.6	59.6
300	5	49.4	49.3	49.2	49.0	49.0	48.9	48.7	48.5	48.5
480	8	32.2	32.1	31.9	31.8	31.7	31.6	31.5	31.3	31.3
600	10	26.1	26.0	25.9	25.8	25.7	25.6	25.5	25.4	25.4
1200	20	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3