

UPS



ALL NORTHSTAR PRODUCTS ARE COMPLIANT WITH:

- ✦ DOT 49CFR173.159(d)
 - (i) and (ii)
- ✦ UL Approval
- ✦ ISO 9000/14000

NSB 12-270

KEY FEATURES

- Specifically designed for mission-critical applications. Excels at high-rate discharge and recharge, extreme temperature range, deep or shallow cyclic applications.
- High cyclic life capability +500 C/3 @ 80% DOD.
- 10 year float life at 25°C (77°F) — 15 year float life at 20°C (68°F).
- Flame retardant (UL 94 VO) PC-ABS plastic case and cover.
- 3 step terminal seal design to ensure leak-free operation. Female M6 brass terminals provide maximum high rate performance and no annual retightening.
- Approved as non-hazardous cargo for ground, sea and air transportation.

ELECTRICAL CHARACTERISTICS

Refer to the NSB detailed performance tables for additional current, capacity and power information.

	Int'l Standards @ 20°C □	NA Standards @ 77°F
15 minute power to 1.67 VPC □	319 watts per cell □	310 watts per cell
20 hour capacity to 1.75 VPC □	70 amp-hours □	72 amp-hours □
Float voltage □	2.29 +/- .02 volts per cell □	2.27 +/- .02 volts per cell
Cyclic Recharge □	2.45 VPC — no current limit	
Shelf life □	2 years	
Impedance (1KHz) □	2.0 m-ohms □	
Short Circuit Current □	3,200 Amps □	
Voltage □	12 Volts □	

MECHANICAL CHARACTERISTICS

	SI Units □	English Units
Height □	200 mm □	7.87 inches □
Width □	173 mm □	6.80 inches
Length □	261 mm □	10.27 inches
Weight □	27.3 kilograms □	60.0 pounds
Terminal Torque □	8.0 Newton-meters □	71 inch-pounds



NOTHING IS MORE RELIABLE

NSB12+270

PERFORMANCE TABLES @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Mins	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03			422.1	468.6	494.9	511.6	549.6	580.7	603.6
5	0.08		252.5	284.5	313.9	329.7	339.3	359.2	372.5	378.3
10	0.17	150.3	171.1	190.7	208.1	217.2	222.5	233.0	239.0	240.1
15	0.25	117.1	132.0	145.7	157.8	164.0	167.5	174.4	178.0	178.0
20	0.33	97.0	108.4	118.8	127.9	132.4	135.0	140.0	142.4	142.4
30	0.50	73.2	80.8	87.6	93.4	96.3	97.9	100.9	102.3	102.3
45	0.75	54.4	59.2	63.5	67.0	68.8	69.8	71.5	72.3	72.3
60	1	43.6	47.0	50.0	52.5	53.7	54.4	55.6	56.0	56.0
120	2	25.0	26.3	27.5	28.4	28.9	29.1	29.6	29.7	29.7
180	3	17.7	18.5	19.1	19.7	19.9	20.0	20.3	20.4	20.4
240	4	13.8	14.3	14.8	15.1	15.2	15.3	15.5	15.6	15.6
300	5	11.4	11.7	12.0	12.3	12.4	12.5	12.6	12.6	12.6
480	8	7.5	7.7	7.8	8.0	8.0	8.1	8.1	8.1	8.1
600	10	6.1	6.3	6.4	6.5	6.5	6.6	6.6	6.6	
1200	20	3.2	3.3	3.4	3.5	3.5	3.5	3.6		

Capacity / Ah

Duration		End of Discharge Voltage								
Mins	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03			14.1	15.6	16.5	17.1	18.3	19.4	20.1
5	0.08		21.0	23.7	26.2	27.5	28.3	29.9	31.0	31.5
10	0.17	25.1	28.5	31.8	34.7	36.2	37.1	38.8	39.8	40.0
15	0.25	29.3	33.0	36.4	39.5	41.0	41.9	43.6	44.5	44.5
20	0.33	32.3	36.1	39.6	42.6	44.1	45.0	46.7	47.5	47.5
30	0.50	36.6	40.4	43.8	46.7	48.1	49.0	50.5	51.1	51.1
45	0.75	40.8	44.4	47.6	50.3	51.6	52.3	53.6	54.2	54.2
60	1	43.6	47.0	50.0	52.5	53.7	54.4	55.6	56.0	56.0
120	2	50.0	52.7	55.0	56.9	57.8	58.3	59.2	59.5	59.5
180	3	53.2	55.5	57.4	59.0	59.7	60.1	60.8	61.1	61.1
240	4	55.4	57.3	59.0	60.3	61.0	61.3	62.0	62.2	62.2
300	5	56.9	58.7	60.2	61.4	62.0	62.3	62.9	63.1	63.1
480	8	59.8	61.3	62.6	63.7	64.2	64.4	65.0	65.2	65.2
600	10	61.1	62.6	63.8	64.8	65.3	65.6	66.1	66.4	
1200	20	64.6	66.5	68.1	69.5	70.1	70.5	71.2		

Power / W per cell

Duration		End of Discharge Voltage								
Mins	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03			772.1	838.1	874.7	897.5	948.0	987.8	1015.3
5	0.08		483.9	535.4	581.3	605.1	619.2	647.1	663.5	667.4
10	0.17	295.1	330.9	363.9	392.4	406.7	414.9	430.2	437.5	437.5
15	0.25	230.1	256.1	279.8	299.9	309.9	315.5	325.7	330.0	330.0
20	0.33	190.6	210.7	228.9	244.2	251.6	255.9	263.4	266.3	266.3
30	0.50	143.9	157.4	169.4	179.3	184.2	186.9	191.6	193.3	193.3
45	0.75	106.8	115.4	123.0	129.3	132.3	134.0	136.8	137.8	137.8
60	1	85.7	91.8	97.2	101.5	103.6	104.8	106.8	107.5	107.5
120	2	49.0	51.5	53.6	55.4	56.2	56.6	57.4	57.7	57.7
180	3	34.9	36.3	37.5	38.4	38.9	39.1	39.6	39.8	39.8
240	4	27.2	28.2	28.9	29.6	29.9	30.0	30.3	30.5	30.5
300	5	22.4	23.1	23.7	24.1	24.3	24.5	24.7	24.8	24.8
480	8	14.8	15.2	15.5	15.7	15.8	15.9	16.0	16.1	16.1
600	10	12.1	12.4	12.7	12.9	13.0	13.0	13.1	13.1	
1200	20	6.5	6.7	6.9	7.0	7.0	7.1	7.1		