

UPS



ALL NORTHSTAR PRODUCTS ARE COMPLIANT WITH:

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

NSB 12-370

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.
- Integral handles ensure ease of handling.
- 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 □	395 watts per cell □	400 watts per cell
20 hour capacity to 1.75 VPC □	101 amp-hours □	103 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 □	4,300 Amps □	
Voltage □	12 Volts □	

MECHANICAL CHARACTERISTICS

	SI Units □	English Units
Height □	213 mm □	8.39 inches □
Width □	173 mm □	6.80 inches
Length □	341 mm □	13.42 inches
Weight □	37.8 kilograms □	83.1 pounds
Terminal Torque □	8.0 Newton-meters □	71 inch-pounds



NOTHING IS MORE RELIABLE

NSB12+370

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			525.2	586.8	620.0	640.1	681.8	709.0	719.9
5	0.08		324.8	362.9	397.0	414.8	425.3	446.1	458.2	460.8
10	0.17	204.7	228.8	251.1	270.5	280.4	286.1	297.2	303.0	303.4
15	0.25	163.5	180.6	196.1	209.5	216.3	220.1	227.4	231.1	231.1
20	0.33	137.5	150.7	162.5	172.6	177.6	180.5	185.9	188.5	188.5
30	0.50	105.9	114.7	122.6	129.2	132.5	134.3	137.7	139.2	139.2
45	0.75	80.0	85.7	90.8	95.0	97.1	98.2	100.3	101.2	101.2
60	1	64.8	69.0	72.7	75.7	77.1	77.9	79.4	80.0	80.0
120	2	37.8	39.7	41.2	42.5	43.1	43.4	44.0	44.3	44.3
180	3	27.1	28.2	29.1	29.8	30.2	30.4	30.7	30.9	30.9
240	4	21.2	21.9	22.6	23.1	23.3	23.5	23.7	23.8	23.8
300	5	17.4	18.0	18.5	18.9	19.0	19.1	19.3	19.4	19.4
480	8	11.5	11.8	12.0	12.2	12.3	12.4	12.5	12.5	12.5
600	10	9.4	9.6	9.8	9.9	10.0	10.1	10.1	10.2	
1200	20	4.9	5.0	5.1	5.2	5.2	5.2	5.3		

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			17.5	19.6	20.7	21.3	22.7	23.6	24.0
5	0.08		27.1	30.2	33.1	34.6	35.4	37.2	38.2	38.4
10	0.17	34.1	38.1	41.8	45.1	46.7	47.7	49.5	50.5	50.6
15	0.25	40.9	45.1	49.0	52.4	54.1	55.0	56.9	57.8	57.8
20	0.33	45.8	50.2	54.2	57.5	59.2	60.2	62.0	62.8	62.8
30	0.50	52.9	57.4	61.3	64.6	66.2	67.1	68.8	69.6	69.6
45	0.75	60.0	64.3	68.1	71.3	72.8	73.7	75.2	75.9	75.9
60	1	64.8	69.0	72.7	75.7	77.1	77.9	79.4	80.0	80.0
120	2	75.6	79.3	82.4	85.0	86.2	86.9	88.1	88.5	88.5
180	3	81.2	84.5	87.3	89.5	90.6	91.2	92.2	92.6	92.6
240	4	84.7	87.7	90.3	92.3	93.3	93.8	94.8	95.2	95.2
300	5	87.2	90.0	92.4	94.3	95.2	95.7	96.6	96.9	96.9
480	8	91.7	94.2	96.2	97.9	98.7	99.1	99.9	100.2	100.2
600	10	93.5	95.9	97.8	99.4	100.2	100.6	101.3	101.7	
1200	20	98.0	100.2	102.1	103.6	104.3	104.7	105.4		

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			939.3	1038.3	1090.1	1120.7	1181.3	1215.9	1222.0
5	0.08		601.7	663.6	718.0	745.8	761.9	793.1	809.7	810.8
10	0.17	391.2	430.8	466.7	497.6	513.1	522.0	538.9	547.5	547.5
15	0.25	315.0	342.9	368.0	389.2	399.8	405.9	417.2	422.8	422.8
20	0.33	266.4	287.8	306.8	322.9	330.8	335.3	343.7	347.7	347.7
30	0.50	206.5	220.8	233.4	244.0	249.1	252.1	257.4	259.9	259.9
45	0.75	156.9	166.2	174.4	181.1	184.4	186.2	189.5	191.0	191.0
60	1	127.6	134.4	140.3	145.1	147.4	148.8	151.1	152.1	152.1
120	2	75.0	78.0	80.6	82.6	83.6	84.2	85.1	85.5	85.5
180	3	53.8	55.7	57.2	58.4	59.0	59.4	59.9	60.2	60.2
240	4	42.2	43.5	44.6	45.4	45.8	46.0	46.4	46.6	46.6
300	5	34.8	35.8	36.6	37.2	37.5	37.7	38.0	38.1	38.1
480	8	23.0	23.5	24.0	24.3	24.5	24.6	24.7	24.8	24.8
600	10	18.8	19.2	19.5	19.8	19.9	20.0	20.1	20.2	
1200	20	9.9	10.1	10.2	10.4	10.4	10.5	10.5		