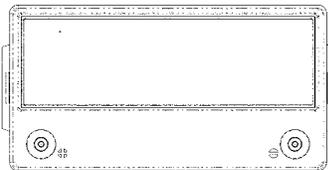
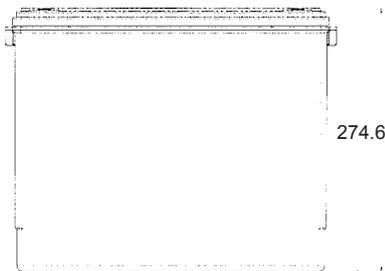




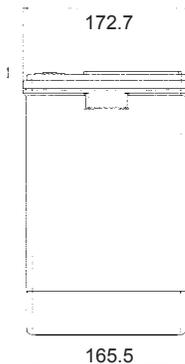
12V 539.7 watts/cell
at 4C (15 min.) rate



344.6



323.5



172.7

165.5

KEY FEATURES

Specifically designed and engineered for mission critical applications

- Performance excels at high rates of discharge and recharge
- 3 year warranty
- Advanced automation in manufacturing processes ensure consistency and reliability
- Advanced AGM materials significantly enhance performance and reliability
- Exceptional performance under deep or shallow cyclic discharge applications
- Operational within an extreme temperature range
- High cyclic capability +500 C/3 at 80% Depth of Discharge
- Advanced 3 stage terminal design to ensure leak free operation
 - Female M6 brass terminals provide maximum performance
- Thermally sealed PC/ABS plastic casing and cover
 - Flame retardant (UL 94 VO) and LOI of at least 28%
 - Designed to withstand extreme degrees of temperature and pressure
- Approved as non-hazardous cargo for ground, sea and air transport
 - DOT 49CFR173.159(d), (i) and (ii)
- All NorthStar products are compliant with
 - Telcordia SR4228, Bellcore GR-63-Core, Issue 1
 - British and German telecom standards
 - UL Approved
- Northstar is Registered to ISO 9001: 2000 & ISO 14001: 1996

ELECTRICAL CHARACTERISTICS

	NA Standards (77°F)	Int'l Standards (20°C)
4C (15 min.) Power to 1.67 VPC	539.7 watts per cell	506.0 watts per cell
Float Voltage	2.27 +/- 0.02 volts per cell	2.29 +/- 0.02 volts per cell
Cyclic Recharge	2.45 VPC (no limit on current)	
Shelf Life	2 years	
Impedance (1KHz)	0.0020 ohms	
Short Circuit Current	5300 Amps	
Nominal Voltage	12 Volts	

CONSTANT POWER DISCHARGE RATINGS

watts/cell at 25°C (77°F)

End of Discharge (Volts)	Duration (minutes)								
	2	5	10	15	20	30	45	60	120
1.75	1105.2	836.4	612.4	492.0	414.9	319.8	241.1	194.9	112.4
1.70	1190.0	900.8	655.2	523.4	439.3	336.1	251.5	202.2	115.0
1.67	1232.8	934.1	677.5	539.7	451.9	344.6	256.8	205.9	116.4
1.65	1257.5	953.8	690.7	549.4	459.5	349.6	260.0	208.1	117.2
1.60	1304.3	992.9	717.5	569.2	474.8	359.8	266.4	212.5	118.7

MECHANICAL CHARACTERISTICS

	SI Units	English Units
Height	274.6 mm	10.80 inches
Width	172.7 mm	6.80 inches
Length	344.7 mm	13.60 inches
Weight	49.7 kilograms	109.5 pounds
Terminal Torque	8.0 Newton-meters	71 inch-pounds

CONSTANT CURRENT DISCHARGE RATINGS

Amperes at 25°C (77°F)

End of Discharge (Volts)	Duration (minutes)								
	2	5	10	15	20	30	45	60	120
1.75	627.8	461.5	330.6	262.4	219.4	167.2	124.7	100.1	56.8
1.70	682.0	501.6	356.9	281.5	234.2	177.1	131.0	104.5	58.5
1.67	709.8	522.6	370.7	291.6	242.0	182.2	134.2	106.8	59.3
1.65	726.1	535.1	379.0	297.6	246.6	185.3	136.2	108.1	59.8
1.60	757.5	560.4	395.9	309.9	256.2	191.6	140.1	110.8	60.8

For additional current, capacity and power information refer to the NSB detailed performance tables.