

# Product Data Sheet

## NSB 12-400



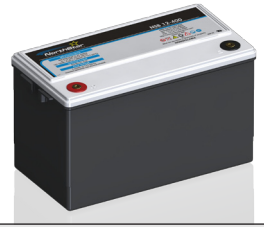
Specifically designed  
and engineered for  
mission critical  
applications

- Performance excels at high rates of discharge and recharge
- 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
- Advanced 3 stage terminal design to ensure leak free operation
  - Female M6 brass terminals provide maximum performance
- Thermally sealed PPO 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)



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### Technical Specifications

	International Standards 20°C (68°F)	NA Standards 77°F (25°C)
4C (15 min.) Power to 1.67 VPC	375 Watts/cell	400 Watts/cell
Float Voltage	2.29 +/- 0.02 Volts/Cell	2.27 +/- 0.02 Volts/Cell
Impedance (1kHz)	3.3 mΩ @ 25 °C (77 °F)	
Conductance	1552 S	
Nominal Voltage	12 V	
Short Circuit Current	3,900 A	
Shelf Life	2 years	

### Measurements

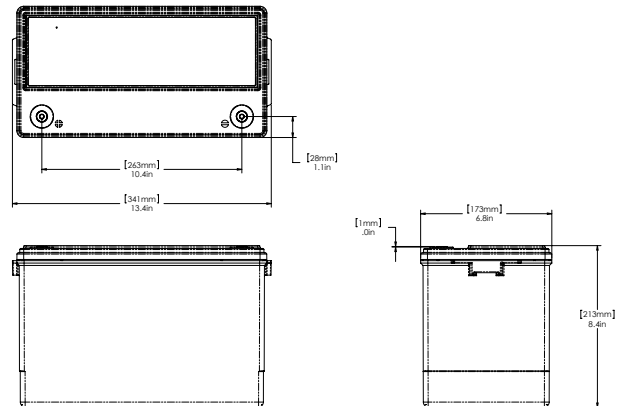
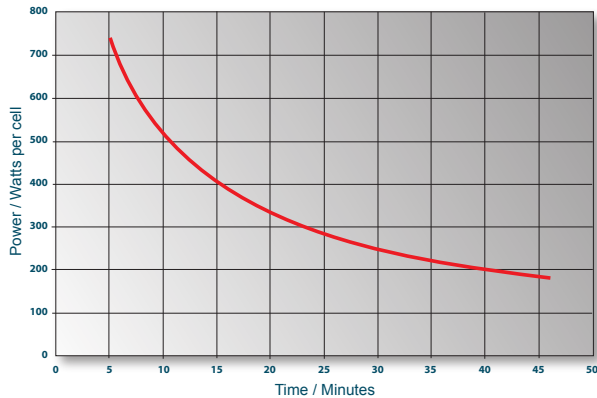
Height	213 mm (8.4 in)
Width	173 mm (6.8 in)
Depth	341 mm (13.4 in)
Weight	35 kg (78 lbs)
Terminal Torque	8.0 Nm (71 in-lbs)
Terminal	Female M6 Leak Proof

\*For more information please contact NorthStar Battery Customer Service

### Constant Power Discharge Ratings Duration (minutes) (Watts/cell at 25°C/77F)

End of discharge (Volts)	2	5	10	15	20	30	45	60	120
1.75	939	664	467	368	307	233	174	140	81
1.70	1038	718	498	389	323	244	181	145	83
1.67	1090	746	513	400	331	249	184	147	84
1.65	1121	762	522	406	335	252	186	149	84
1.60	1181	793	539	417	344	257	190	151	85

NSB12-400 Discharge Curve to 1.67 vpc



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All NorthStar products are compliant with:

- Telcordia SR4228, Bellcore GR-63-Core, Issue 1
- British, German, and Russian telecom standards
- UL Approved

NorthStar is Registered to ISO 9001 & ISO 14001