

## AGM Thin Plate Pure Lead - High Temp



The NSB Red 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 90TT Red

## Nominal Technical Specifications

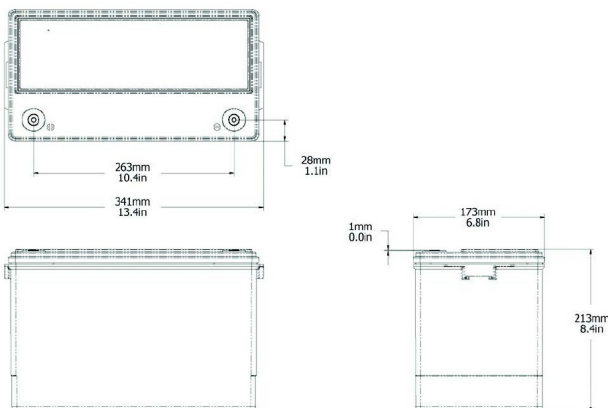
### Dimensions

Height	213 mm	Width	173 mm
Length	341 mm	Weight	34 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)	72 / 76 Ah
3 hr capacity to 1.75VPC @ 20/25°C (68/77°F)	83 / 85 Ah
8 hr capacity to 1.75VPC @ 20/25°C (68/77°F)	90 / 92 Ah
10 hr capacity to 1.80VPC @ 20/25°C (68/77°F)	91 / 93 Ah
Float voltage @ 20/25°C (68/77°F)	2.28 / 2.27 VPC
Impedance (1Khz)	2.8 mΩ @ 25°C (77°F)
Conductance	1803 S
Short circuit current	3600 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.

NorthStar Americas PARTIAL  
NorthStar Battery Company LLC  
4000 Continental Way  
Springfield, MO, 65803,  
United States of America  
[info@northstarbattery.com](mailto:info@northstarbattery.com)  
Tel: +1 417 575 8200  
Fax: +1 417 575 8250

NorthStar Europe  
SiteTel Sweden AB  
Haukadalsgatan 8A  
SE-164 40 Kista,  
Stockholm, Sweden  
[europe@northstarbattery.com](mailto:europe@northstarbattery.com)  
Tel: +46 8 410 102 00  
Fax: +46 8 638 06 00

NorthStar Middle East, Africa  
NorthStar Battery DMCC  
Office 702, Saba 1 Tower  
Jumeirah Lake Towers, Dubai  
United Arab Emirates  
[mea@northstarbattery.com](mailto:mea@northstarbattery.com)  
Tel: +971 4 423 8060  
Fax: +971 4 423 8061

NorthStar Asia-Pacific  
NS Asia Pacific Sdn. Bhd.  
B2-3A-13A, Solaris Dutamas  
No. 1, Jalan Dutamas 1, 50480  
Kuala Lumpur, Malaysia  
[asia@northstarsitetel.com](mailto:asia@northstarsitetel.com)  
Tel: +60 3 6419 0711