



# NSB 190FT RED

Pure Lead - Long Life



The NSB RED Battery® delivers long life for reliable and unreliable grid conditions.

- 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)
- EUROBAT design life definition: Very Long Life (12+ years)
- Fast recharging
- Operating temperature range -40°C to +65°C (-40°F to 149°F)
- State-of-the-art automated manufacturing ensures consistency and reliability
- Shelf life of up to 24 months
- 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
- Flame retardant (UL 94 VO) and LOI of at least 28%
- Approved as non-hazardous cargo for ground, sea, and air transport - DOT 49CFR173.159(d), (i) and (ii)

# NSB 190FT RED

## Nominal Technical Specifications

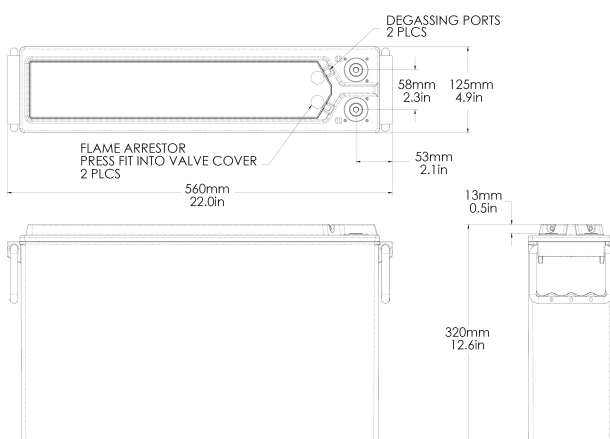
### Dimensions

Height	320 mm	Width	125 mm
Length	560 mm	Weight	56 kg

### Electrical

Terminal	Female M8 x 1.25
Terminal torque	8.0 Nm (71 in-lbs)
1 hr capacity to 1.70VPC @ 20/25°C (68/77°F)	123 / 129 Ah
3 hr capacity to 1.75VPC @ 20/25°C (68/77°F)	160 / 164 Ah
8 hr capacity to 1.75VPC @ 20/25°C (68/77°F)	183 / 186 Ah
10 hr capacity to 1.80VPC @ 20/25°C (68/77°F)	187 / 190 Ah
Float voltage @ 20/25°C (68/77°F)	2.28 / 2.27 VPC
Impedance (1Khz)	2.8 mΩ @ 25°C (77°F)
Conductance	1900 S
Short circuit current	5000 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