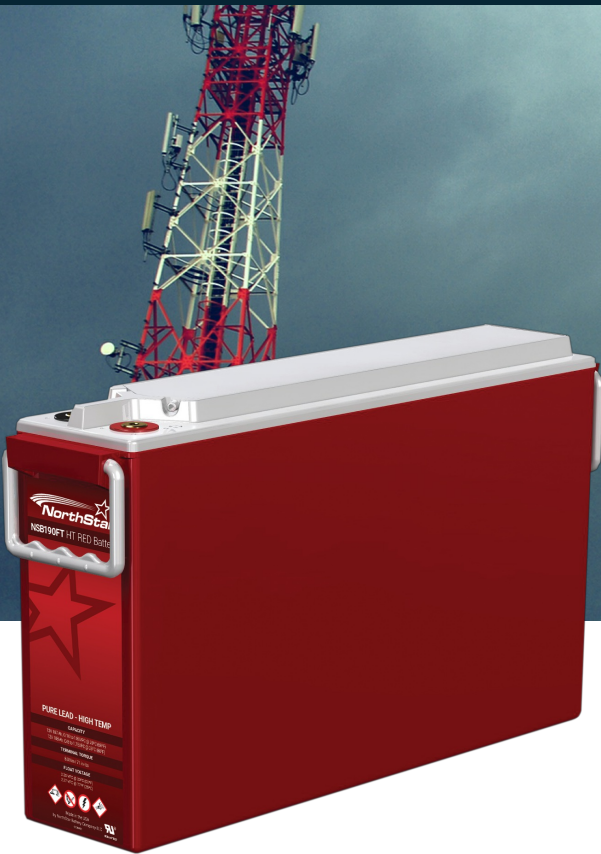


Pure Lead - High Temp



The NSB HT 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: Very Long Life (12+ years)
- Advanced 3 stage terminal design to ensure leak-free operation - brass terminals provide maximum performance
- Approved as non-hazardous cargo for ground, sea and air transport DOT 49CFR173.159(d), (i) and (ii)
- Fast recharging
- High cyclic performance
- Flame retardant (UL 94 VO) and LOI of at least 28%
- 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
- 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

NSB 190FT HT RED

Technical Specifications

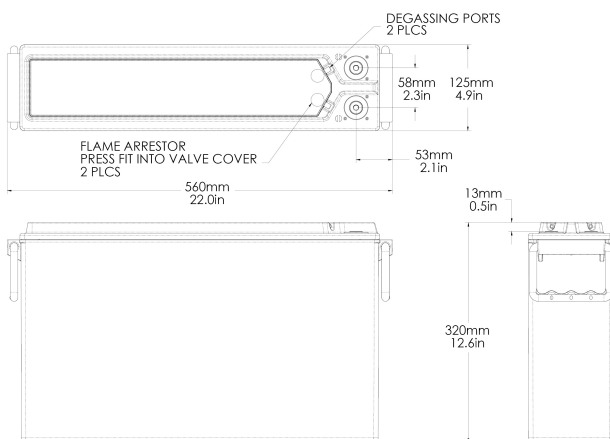
Dimensions (Nominal)

| | | | |
|--------|---------|--------|---------|
| Height | 12.6 in | Width | 4.9 in |
| Length | 22 in | Weight | 132 lbs |

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) | 137 / 142 Ah |
| 3 hr capacity to 1.75VPC @ 20/25°C (68/77°F) | 167 / 172 Ah |
| 8 hr capacity to 1.75VPC @ 20/25°C (68/77°F) | 185 / 188 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) | 2.3 mΩ @ 25°C (77°F) |
| Conductance | 2366 S |
| Short circuit current | 6000 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.