

Pure Lead - High Rate



The NSB UPS Battery[®] delivers superior performance at high discharge rates down to <15 mins.

- Performance excels at high rates of discharge and recharge
- 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)
- High modulus Polyphenylene Oxide (PPO) plastic materials designed to withstand extended elevated operating temperatures and maintain high battery compression essential for reliable operation
- Flame retardant (UL 94 V0) and LOI of at least 28%
- High energy density
- 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
- 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 12-425RT

Nominal Technical Specifications

Electrical

| | | | |
|------------------------------|----------------------|-----------------------|--------------------|
| Terminal | Female M8 x 1.25 | Terminal torque | 8.0 Nm (71 in-lbs) |
| 4C (15min) power to 1.67 VPC | 410 Watts/Cell | Float voltage | 2.27 VPC |
| Shelf life | up to 24 months | Conductance | 1921 S |
| Impedance (1Khz) | 2.6 mΩ @ 25°C (77°F) | Short circuit current | 3500 A |
| Operation temperature range | -40°C to +65°C | Nominal voltage | 12 V |
| Silver equivalent | NSB 12-420FT | Capacity | W/cell (15 min) |

Dimensions

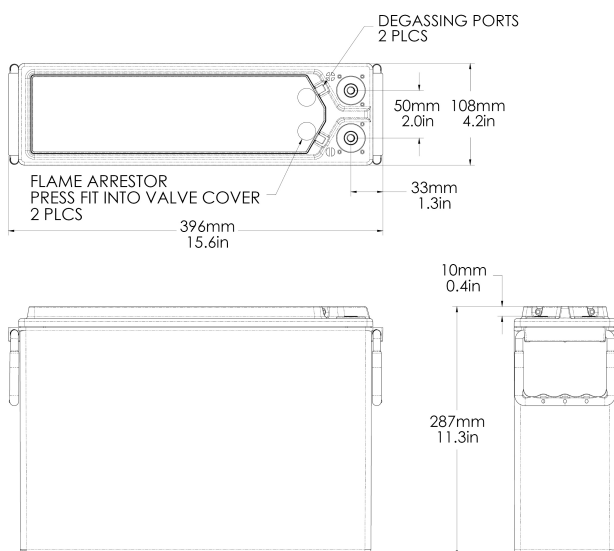
| | | | |
|--------|---------|--------|--------|
| Height | 11.3 in | Width | 4.2 in |
| Length | 15.6 in | Weight | 77 lbs |

Constant Power Discharge Ratings (WPC @ 25°C/77°F)

Duration (minutes) (watts/cell @ 25°C/77°F)

| End of discharge (Volts) | 2 min | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 60 min | 120 min |
|--------------------------|-------|-------|--------|--------|--------|--------|--------|--------|---------|
| 1.75 | 925 | 688 | 490 | 386 | 321 | 242 | 189 | 142 | 80 |
| 1.70 | 1027 | 739 | 516 | 402 | 332 | 248 | 182 | 144 | 80 |
| 1.67 | 1083 | 766 | 529 | 410 | 338 | 252 | 184 | 146 | 81 |
| 1.65 | 1117 | 783 | 537 | 415 | 341 | 254 | 185 | 146 | 81 |
| 1.60 | 1193 | 818 | 554 | 426 | 348 | 258 | 187 | 148 | 81 |

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.