



NorthStar Blue Batteries



Superior PSOC cyclic performance and fast recharge for long life on unstable grids and high fuel savings with hybrid systems.

- 2 year shelf life at 25°C (77°F)
- Partial State of Charge (PSOC) cycling technology
- Ideal for demanding environments with very unstable AC power
- High cycling and fast recharge performance
- Modified electrochemistry delivers high capacity and high power density
- High potential fuel savings when used with hybrid genset applications
- Ideal for renewable energy applications such as solar power systems
- 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 - female M8 or M6 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%
- Integral handles and front access terminals ensure ease of installation and maintenance
- Approved as non-hazardous cargo for ground, sea, and air transport - DOT 49CFR173.159(d), (i) and (ii)

www.northstarbattery.com



SPECIFICATIONS



NSB 40FT Blue+



NSB 92FT Blue+



NSB 100FT Blue+



NSB 170 FT Blue+

Height	208 mm [8.2 in]	264 mm [10.4 in]	287 mm [11.3 in]	320 mm [12.6 in]
Width	97 mm [3.8 in]	108 mm [4.2 in]	108 mm [4.2 in]	125 mm [4.9 in]
Length	250 mm [9.8 in]	396 mm [15.6 in]	396 mm [15.6 in]	560 mm [22.0 in]
Weight	14 kg [31 lbs]	31 kg [69 lbs]	34 kg [74 lbs]	60 kg [132 lbs]
Terminal Torque	8.0 Nm [71 in-lbs]	8.0 Nm [71 in-lbs]	8.0 Nm [71 in-lbs]	8.0 Nm [71 in-lbs]
8 hour capacity to 1.75 VPC*	37 / 37 Ah	83 / 85 Ah	98 / 100 Ah	167 / 168 Ah
10 hour capacity to 1.80 VPC*	37 / 37 Ah	85 / 86 Ah	99 / 100 Ah	168 / 170 Ah
Float voltage*	2.29 / 2.27 VPC	2.29 / 2.27 VPC	2.29 / 2.27 VPC	2.29 / 2.27 VPC
Impedance [1KHz]	3,9 mΩ	2.8 mΩ	2.6 mΩ	2.1 mΩ
Conductance	1,114 S	1,669 S	1,846 S	2,380 S
Short circuit current	1,500 A	3,500 A	3,500 A	6,000 A
Nominal voltage	12 V	12 V	12 V	12 V



NSB 2-400 Blue



NSB 100FT Blue



NSB 170 FT Blue

Height	161 mm [6.3 in]	287 mm [11.3 in]	320 mm [12.6 in]
Width	181 mm [7.1 in]	108 mm [4.2 in]	125 mm [4.9 in]
Length	348 mm [13.7 in]	396 mm [15.6 in]	560 mm [22.0 in]
Weight	26 kg [56 lbs]	34 kg [74 lbs]	58 kg [128 lbs]
Terminal Torque	8.0 Nm [71 in-lbs]	8.0 Nm [71 in-lbs]	8.0 Nm [71 in-lbs]
8 hour capacity to 1.75 VPC*	365 / 371 Ah	82 / 83 Ah	138 / 140 Ah
10 hour capacity to 1.80 VPC*	365 / 370 Ah	82 / 84 Ah	139 / 141 Ah
Float voltage*	2.29 / 2.27 VPC	2.29 / 2.27 VPC	2.29 / 2.27 VPC
Impedance [1KHz]	0.2 mΩ	3.7 mΩ	2.3 mΩ
Conductance	4,445 S	1,288 S	2,201 S
Short circuit current	10,000 A	3,500 A	6,000 A
Nominal voltage	2 V	12 V	12 V

* Capacity and float voltages given at 20°C [68°F] and 25°C [77°F]

Delivering reliable and sustainable power to the world.



ADVANTAGES

What is a PSOC Battery?

PSOC stands for Partial State of Charge. Most standard batteries are not PSOC capable and require full recharge after each discharge to achieve long life.

Performing a full recharge of a battery takes a significant amount of time. A PSOC compatible battery does not require a full recharge every cycle and is therefore much faster and easier to recharge.

NSB Blue Batteries are true PSOC compatible batteries. In unstable or off grid applications, such as diesel gensets, frequent discharge and recharging will quickly kill standard batteries, but NSB Blue Batteries will deliver exceptional performance in this type of application, thanks to their PSOC compatibility.



NorthStar Advanced Manufacturing

NorthStar products are designed to be ultra-high performance and premium quality, with a much longer lifetime than standard products. But to build batteries to such a high standard requires the latest robotic processing and manufacturing technology.

That's why we built the industry's most technologically advanced battery manufacturing facilities in Missouri, USA. We don't cut corners by outsourcing to other countries - all NorthStar batteries are proudly made in the USA.

Our facilities are also built and run to meet the toughest possible environmental requirements, to prevent lead poisoning of the surrounding air, ground, and water.

Our mission is to deliver reliable and sustainable power to the world. Don't settle for an inferior product - when you need the best, you need a NorthStar Battery.



CONTACTS



NorthStar in the Americas

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

Netsphere in Hongkong

Rm 1203, 12/F, Kwong Sang Hong Centre
151-153 Hoi Bun Road
Kwun Tong, Hong Kong
sales@netsphere.com.hk
Tel: +852 2344 3728
Fax: +852 2344 3778

Netsphere in Thailand

919/431, 36/F, Jewelry Trade Center
Silom Road, Silom Bangrak
Bangkok 10500 Thailand
sales@netsphere.co.th
Tel: +66 2 630 3368
Fax: +66 2 630 3367



All NorthStar batteries are compliant with:
Telcordia SR4228, IEC 60 896; Bellcore GR-
63-Core, Issue 1; British, German, and Russian
telecom standards; UL approved. NorthStar is
registered to ISO 9001 and ISO 14001.