



PowerSafe® SBS Front Terminal

Telecommunications

NEBS™ Certified

Battery Range Summary

The PowerSafe® SBS® Front Terminal battery further extends the technical leadership of PowerSafe SBS battery product line: not only do PowerSafe SBS Front Terminal monoblocs retain the benefits typically associated with Thin Plate Pure Lead (TPPL) Technology such as long life, high energy density, superior shelf life, etc., they also deliver exceptional cyclic performance in both float and fast charge applications, even in the hottest and harshest operating environments.

Where conventional Valve Regulated Lead Acid (VRLA)/Absorbed Glass Mat (AGM) batteries struggle to cope with harsh conditions and frequent power outages, cutting edge (TPPL) technology makes PowerSafe 12V batteries the perfect solution for the challenging operating conditions of today's telecommunication networks.

PowerSafe SBS batteries are designed to high quality standards and a unique manufacturing methods means superior energy and power, high performance and proven reliability, there is no substitute to PowerSafe SBS Front Terminal batteries.



Features and Benefits

- Capacity range 31-190Ah
- 12V monobloc configurations
- Multiple string configurations available
- Two year shelf life
- SR4228 compliant
- Proven long service life
- High energy density and cycling capability

Construction

- Robust positive plates are designed to prolong service life and enhance corrosion resistance
- Separators are low resistance microporous (AGM). The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Terminals are stainless steel front access with top access copper alloy insert. Top and front access terminations provide maximum conductivity
- Self-regulating one way pressure relief valves prevents ingress of atmospheric oxygen

Installation and Operation

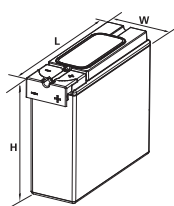
- Space efficient footprint
- VRLA design, reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- Increased active material surface area yields great cycling capability
- Operating temperature: -40°F (-40°C) to 122°F (50°C)
Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

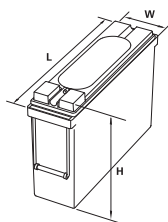
- Meets criteria for "non-spillable" batteries
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

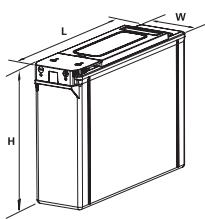
| Cell Type | Nominal Capacity (Ah) | | Nominal Dimensions | | | | | | Weight - Volumes | |
|-----------|-----------------------------|----------------------------|--------------------|-----|-------|-----|--------|-----|------------------|------|
| | 10 hr rate to 1.80Vpc @20°C | 8 hr rate to 1.75Vpc @77°F | Length | | Width | | Height | | Unpacked | |
| | | | in | mm | in | mm | in | mm | lbs | kg |
| SBS B8F | 31 | 31 | 11.9 | 303 | 3.8 | 97 | 6.3 | 159 | 22.7 | 10.3 |
| SBS B10F | 38 | 38 | 11.9 | 303 | 3.8 | 97 | 7.2 | 184 | 28.2 | 12.8 |
| SBS B14F | 62 | 62 | 11.9 | 303 | 3.8 | 97 | 10.4 | 264 | 42.0 | 19.1 |
| SBS C11F | 92 | 91 | 16.4 | 417 | 4.1 | 105 | 10.1 | 256 | 61.6 | 28.0 |
| SBS 100F | 100 | 100 | 15.6 | 395 | 4.3 | 108 | 11.3 | 287 | 71.9 | 32.6 |
| SBS 112F | 112 | 112 | 22.1 | 561 | 4.9 | 125 | 9.0 | 228 | 90.4 | 41.1 |
| SBS 145F | 145 | 145 | 17.9 | 455 | 6.8 | 173 | 9.4 | 238 | 105.0 | 47.7 |
| SBS 165F | 165 | 165 | 17.9 | 455 | 6.8 | 173 | 10.8 | 273 | 117.4 | 53.3 |
| SBS 170F | 170 | 170 | 22.1 | 561 | 4.9 | 125 | 11.1 | 283 | 115.7 | 52.5 |
| SBS 190F | 190 | 190 | 22.1 | 561 | 4.9 | 125 | 12.4 | 316 | 132.3 | 60.0 |



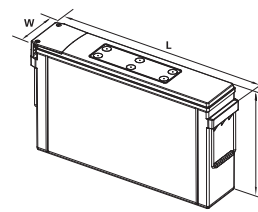
SBS B8F-B14F



SBS C11F



SBS 100F-112F



SBS 145F - 190F