PowerSafe® SBS Front Terminal

Telecommunications *NEBS™ Compliant**

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 and 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 method means superior energy and power, high performance and proven reliability. There is no substitute for 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

*NEBS™ Compliant GR63-Core
Includes the following: SBS B8, SBS B10, SBS B14, SBS C11, SBS 145, SBS 165, SBS 170, SBS 190, SBS 100, SBS 100F and SBS 112F

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EnerSys® Power/Full Solutions

RESERVE POWER

Construction

- Utillizes TPPL technology. Thin positive grids are produced from high purity lead from a unique manufacturing process to maximize corrosion resistance and service life while maximizing energy density
- Separators are AGM made from high purity, superior quality fibers. The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Electrolyte is produced from extremely high purity acid to reduce self discharge rate and float currents
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Front terminal batteries use tin-plated copper terminals. Top terminal batteries use a copper alloy insert
- Self-regulating one way pressure relief valves prevent 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)
- TPPL technology provides increased active material surface area which yields increased energy density
- Operating temperature:
  -40°F (-40°C) to 122°F (50°C)
  Recommended temperature:
  68°F (20°C) to 86°F (30°C)

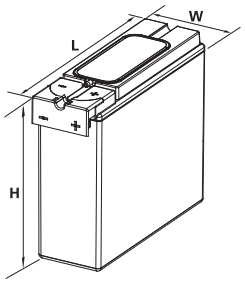
Standards

- Approved as non-hazardous cargo for ground, sea and air transportation in accordance with US DOT Regulation 49 and ICAO & IATA Packing Instruction 806. Please see our MSDS for complete details at http://www.enersys.com/
- 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

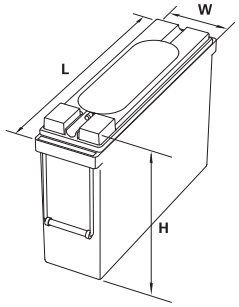
General Specifications

			Nominal Capacity (Ah)		Nominal Dimensions											Electrolyte (1.300 S.G.)				Pure Acid (H2SO4) Acid				
PowerSafe® SBS Battery	Number of Cells	Nominal Voltage (V)	8hr. Rate 1.75Vpc @ 77ºF	10hr. Rate 1.80Vpc @ 20ºC	Length		Width		Height		Typical Weight		Short Circuit Current (Amps)	Internal** Resistance Milli-Ohms	Terminals	Volume (per block)		Weight (per block)		Volume (per block)		Weight (per block)		Lead Weight (per block)
					in	mm	in	mm	in	mm	lbs	kg				gal	L	lbs	kg	gal	L	lbs	kg	lbs kg
SBS B8F*	6	12	31	31	11.9	303	3.80	97.0	6.30	159	22.7	10.3	1270	10.0	M6 M	0.37	1.42	4.05	1.84	0.11	0.40	1.61	0.73	15.6 7.08
SBS B10F*	6	12	38	38	11.9	303	3.80	97.0	7.20	184	28.2	12.8	1390	9.00	M6 M	0.48	1.80	5.15	2.34	0.13	0.51	2.04	0.93	17.7 8.03
SBS B14F*	6	12	62	62	11.9	303	3.80	97.0	10.4	264	42.0	19.1	1800	7.00	M6 M	0.78	2.95	8.45	3.83	0.22	0.83	3.35	1.52	29.6 13.4
SBS C11F*	6	12	92	91	16.4	417	4.10	105	10.1	256	61.6	28.0	2300	5.50	M6 M	1.11	4.19	12.0	5.44	0.31	1.18	4.76	2.16	43.4 19.7
SBS 100F*	6	12	100	100	15.6	395	4.30	108	11.3	287	71.9	32.6	2210	5.60	M6 M	1.34	5.09	14.6	6.60	0.38	1.43	5.77	2.62	49.7 22.5
SBS 112F*	6	12	112	112	22.1	561	4.90	125	9.00	228	90.4	41.0	2500	5.00	M6 M	1.71	6.48	18.5	8.41	0.48	1.82	7.35	3.34	56.8 25.8
SBS 145F*	6	12	145	145	17.8	452	6.80	172	9.40	238	105	47.6	4100	3.00	M6 M	2.27	8.51	24.3	11.0	0.63	2.39	9.66	4.38	79.6 36.1
SBS 165F*	6	12	165	165	17.9	455	6.80	172	10.8	273	117	53.3	3700	2.30	M6 M	2.45	9.27	26.5	12.0	0.64	2.42	9.72	4.41	79.5 36.1
SBS 170F*	6	12	170	170	22.1	561	4.90	125	11.1	283	116	52.5	3400	4.00	M6 M	2.09	7.92	22.7	10.3	0.59	2.23	8.99	4.08	80.5 36.5
SBS 190F*	6	12	190	190	22.1	561	4.90	125	12.4	316	132	60.0	3800	3.30	M6 M	2.34	8.86	25.3	11.5	0.66	2.49	10.1	4.56	94.3 42.8

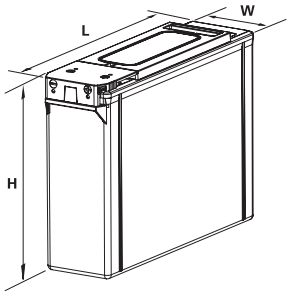
*NEBS™ Compliant GR63-Core
**Resistance values are for reference only and not intended to represent an Ohmic Value or Baseline measurement



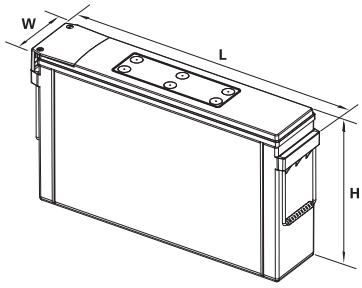
SBS B8F-B14F



SBS C11F



SBS 100F-112F



SBS 145F, 165F-190F

EnerSys®
Power/Full Solutions

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