PowerSafe® SBS

Battery
Range Summary

The outstanding PowerSafe® SBS Front Terminal battery further extends the technical leadership of PowerSafe® SBS batteries range. PowerSafe® SBS Front Terminal batteries retain the benefits of Thin Plate Pure Lead (TPPL) technology such as long-life, high-energy density and superior shelf life. 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® SBS batteries the perfect solution for the challenging operating conditions of today's telecommunication networks.

PowerSafe® SBS batteries are designed to the highest quality standards, with a unique manufacturing process providing 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
- SR-4228 compliant
- Proven long service life
- High energy density and cycling capability

EnerSys®
Power/Full Solutions

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Construction

- Utilizes TPPL technology. Thin positive grids are produced from high purity lead using a unique manufacturing process to maximize corrosion resistance and service life while increasing 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 rates and float currents
- Container and cover made from flame retardant UL94-V0 material, highly resistant to shock and vibration
- Front terminal batteries use tin-plated copper terminals
- 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)

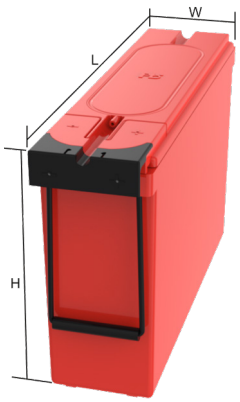
Standards

- 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 SDS for complete details at 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 and ISO 14001 certified

General Specifications

Battery Type	# of Cells	Nominal Voltage (V)	Nominal Capacity (Ah)		Nominal Dimensions						Typical Weight		Short Circuit Current (Amps)	Internal Resistance Milli-Ohms	Terminals	Electrolyte (1.30 S.G)				Pure Acid (H_2SO_4)				Lead Weight (per bloc)	
			8hr. Rate to 1.75Vpc @ 77°F (25°C)	10hr. Rate to 1.80Vpc @ 68°F (20°C)	Length		Width		Height							Volume (per bloc)		Weight (per bloc)		Volume (per bloc)		Weight (per bloc)			
					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	3.8	97	6.26	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	3.8	97	7.24	184	28.2	12.8	1390	9.0	M6 M	0.48	1.80	5.10	2.33	0.13	0.51	2.04	0.93	17.7	8.03
SBS B14F	6	12	62	62	11.9	303	3.8	97	10.4	264	42.0	19.1	1800	7.0	M6 M	0.78	2.95	8.40	3.83	0.22	0.83	3.35	1.52	29.6	13.4
SBS C11F	6	12	92	91	16.4	417	4.1	105	10.1	256	61.6	27.9	2300	5.5	M6 M	1.28	4.85	13.9	6.30	0.36	1.36	5.50	2.49	43.4	19.7
SBS 100F	6	12	100	100	15.6	395	4.3	108	11.3	287	71.9	32.6	2210	5.6	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	4.9	125	8.98	228	90.4	41.0	2500	5.0	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	6.8	172	9.37	238	105	47.6	4100	3.0	M6 M	2.25	8.51	24.3	11.0	0.63	2.39	9.66	4.38	72.4	32.8
SBS 165F	6	12	165	165	17.8	452	6.8	172	10.8	274	117	52.8	3700	2.3	M6 M	2.45	9.27	26.5	12.0	0.64	2.42	9.72	4.41	76.7	34.9
SBS 170F	6	12	170	170	22.1	561	4.9	125	11.1	283	116	52.5	3500	3.5	M6 M	2.09	7.92	25.4	11.5	0.59	2.23	8.99	4.08	82.0	37.2
SBS 190F	6	12	190	190	22.1	561	4.9	125	12.4	316	132	60.0	3800	3.3	M6 M	2.4	9.1	25.7	11.7	0.9	3.3	9.4	4.3	89.5	40.6
SBS 210F	6	12	206	211	22.0	559	4.9	125	13.02	331	139	63	3850	3.3	M6 M	2.6	9.9	27.9	12.6	1	3.6	10.2	4.6	91.2	41.4

SBS B8F-B14F, SBS C11F



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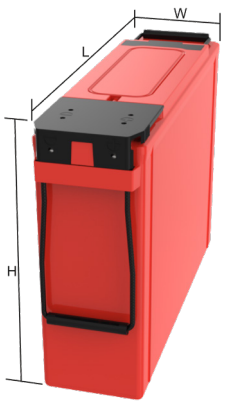

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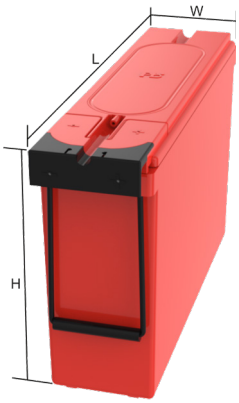
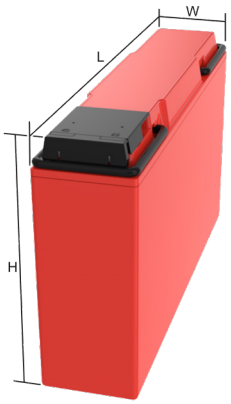


SBS 210F



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