PowerSafe® SBS Front and Top Terminal

Telecommunications *NEBS™ Compliant**

Battery Performance Specifications

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*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

Publication No: US-SBS-PS-005 - March 2015

PowerSafe® SBS

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

- Utillizes Thin Plate Pure Lead (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 Absorbent Glass Mat (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
- Valve Regulated Lead Acid (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)

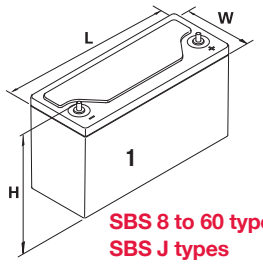
Standards

- 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

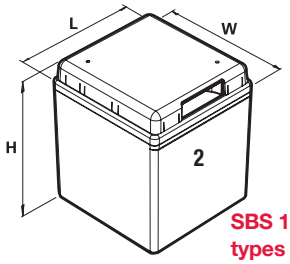
General Specifications

				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 @ 77°F	10hr. Rate 1.80Vpc @ 20°C	Length in	Length mm	Width in	Width mm	Height in	Height mm	Typical Weight lbs	Typical Weight kg	Short Circuit Current (Amps)	Internal** Resistance Milli-Ohms	Terminals	Volume (per block) gal	Volume (per block) L	Weight (per block) lbs	Weight (per block) kg	Volume (per block) gal	Volume (per block) L	Weight (per block) lbs	Weight (per block) kg	Lead Weight (per block) lbs	Lead Weight (per block) kg
Form Factor 1	SBS 8*	6	12	7	7	5.40	138	3.40	86.0	3.90	99.0	5.90	2.70	455	27.1	M4 F	0.10	0.38	1.08	0.49	0.03	0.11	0.43	0.19	4.05	1.84
	SBS 15	6	12	14	14	7.90	200	3.00	77.0	5.50	140	12.5	5.70	891	13.5	M6 M	0.20	0.75	2.14	0.97	0.06	0.21	0.85	0.38	7.81	3.54
	SBS 30	6	12	26	26	9.80	250	3.80	97.0	6.10	156	20.9	9.50	1556	7.90	M6 M	0.34	1.28	3.66	1.66	0.10	0.36	1.45	0.66	15.5	7.00
	SBS HB30	6	12	26	26	9.80	250	3.80	97.0	6.10	156	21.1	9.60	1556	7.90	harness	0.34	1.28	3.66	1.66	0.10	0.36	1.45	0.66	15.5	7.00
	SBS 40	6	12	38	38	9.80	250	3.80	97.0	8.10	206	28.0	12.7	2184	5.60	M6 M	0.51	1.95	5.57	2.52	0.14	0.55	2.21	1.00	21.1	9.59
	SBS 60	6	12	51	51	8.70	220	4.80	121	10.3	261	40.7	18.5	2618	4.40	M6 M	0.75	2.83	8.10	3.67	0.21	0.80	3.21	1.46	29.0	13.2
Form Factor 2	SBS 110	3	6	116	115	7.90	200	8.20	208	9.40	239	46.6	21.2	3804	1.70	M8 M	0.95	3.60	10.3	4.67	0.27	1.01	4.08	1.85	31.5	14.3
	SBS 130	3	6	133	132	7.90	200	8.20	208	9.40	239	49.9	22.7	4111	1.40	M8 M	0.98	3.70	10.6	4.80	0.28	1.04	4.20	1.90	33.8	15.3
	SBS 300	1	2	307	310	7.90	200	8.20	208	9.40	239	47.7	21.7	8700	0.23	M8 M	0.95	3.60	10.3	4.67	0.27	1.01	4.08	1.85	31.9	14.4
	SBS 390	1	2	361	360	7.90	200	8.20	208	9.40	239	51.0	23.2	11101	0.18	M8 M	0.90	3.39	9.70	4.40	0.25	0.95	3.85	1.75	34.4	15.6
Form Factor 1	SBS J13	6	12	12	12	6.90	175	3.30	83.0	5.10	129	11.5	5.20	957	13.0	M6 F	0.23	0.86	2.46	1.12	0.06	0.24	0.98	0.44	8.78	3.98
	SBS J16	6	12	15	15	7.10	181	3.00	76.0	6.60	167	14.8	6.70	1111	11.0	M6 F	0.27	1.02	2.92	1.33	0.08	0.29	1.16	0.53	10.3	4.68
	SBS J30	6	12	26	26	6.50	166	6.90	175	4.90	125	26.0	11.8	1766	7.00	M6 F	0.47	1.79	5.12	2.32	0.13	0.50	2.03	0.92	18.2	8.24
	SBS J40	6	12	39	39	7.70	197	6.50	165	6.70	170	38.2	17.4	2400	5.20	M6 F	0.70	2.64	7.55	3.43	0.20	0.74	3.00	1.36	26.8	12.2
	SBS J70	6	12	64	64	12.9	329	6.50	166	6.90	174	60.9	27.6	3500	3.50	M6 F	1.15	4.36	12.5	5.66	0.32	1.23	4.95	2.25	44.4	20.1
Form Factor 3	SBS B8*	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	7.07
	SBS B10*	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	19.5	8.84
	SBS B14*	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	30.0	13.6
	SBS C11*	6	12	91	92	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	43.3	19.6
	SBS 100*	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	50.4	22.9
	SBS145	6	12	145	145	17.8	452	6.80	172	9.40	238	105	47.6	4100	3.00	M6 M	2.25	8.51	24.3	11.0	0.63	2.39	9.66	4.38	72.5	32.9
Form Factor 4	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	7.07
	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	19.5	8.84
	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	30.0	13.6
	SBS C11F*	6	12	91	92	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	43.3	19.6
	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	50.4	22.9
	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	54.8	24.9
	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	72.1	32.7
	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	36.7
	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	94.7	42.9

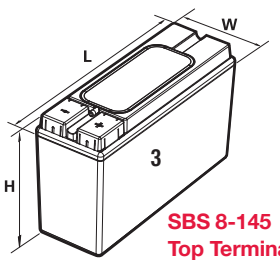
*NEBS Compliant GR63-Core
** Resistance values are for reference only and not intended to represent an Ohmic Value or Baseline measurement
Nominal Ah capacity is based on an 8 hour rate to 1.75 volts per cell @ 77°F (25°C)



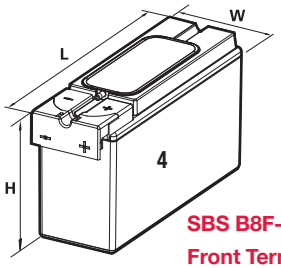
SBS 8 to 60 types
SBS J types



SBS 110-390 types



SBS 8-145
Top Terminal



SBS B8F-190F
Front Terminal