

The PowerSafe[®] SBS Front Terminal battery series utilizes unique and proven technology to provide a superior range of Valve Regulated Lead Acid (VRLA) batteries with an extended service life in compact and energy dense configurations. PowerSafe SBS batteries are manufactured to the highest international standards and are ideal for reliable use in all wireless and fixed-line communication applications. PowerSafe SBS batteries are also widely used in cable TV, emergency lighting, power generation and offshore applications.

The PowerSafe SBS Front Terminal battery models are smaller and lighter than conventional lead-calcium batteries. Smaller dimensions, front terminal configuration and capacity range from 31Ah to 190Ah, make PowerSafe SBS Front Terminal battery models ideal for a wide range of telecom Outside Plant (OSP) and small Central Office (CO) applications. The PowerSafe SBS Front Terminal battery models can be installed in cabinets and 19" or 23" racks. For CO applications a six shelf, fully-wired NEBS certified rack is available. Multiple string configurations allow battery capacity to be matched to the load and increases system reliability.

PowerSafe SBS batteries are designed to cope with elevated temperatures and harsh environments. The advanced thin plate, pure lead technology and unique manufacturing methods, used by EnerSys[®], make PowerSafe SBS batteries the choice for long and trouble-free service.

PowerSafe SBS EON Technology[™] batteries have been developed to provide high cycling and fast recharge performance in applications where the power supply is erratic.

Features & Benefits

- Capacity range: 31Ah - 190Ah
- 12V monobloc configurations
- Proven long service and high energy density NEBS[™]
- High energy density
- Up to two year shelf life
- Very low ventilation requirement
- Wide operating temperature range:
-40°F (-40°C) to 122°F (50°C)
- 19 inch and 23 inch relay racks:
24 VDL and 48 VDL NCR 23 inch
- NEBS Certified



EnerSys[®]

Power/Full Solutions

RESERVE
POWER

Construction

- Positive plates - pure lead grids manufactured using a unique process
- Negative plates - provide perfect balance with the positive plates to ensure optimum recombination efficiency
- Separators - superior quality microporous glass matt separators with high absorption and stability
- Containers and lids - UL94 V-0 rated flame retardant material, highly resistant to shock and vibration
- Electrolyte - high grade dilute sulfuric acid absorbed into Absorbent Glass Mat (AGM) separator material
- Patented terminal design - leak resistant dual seal terminal design
- Self-regulating pressure relief valves - prevent ingress of atmospheric oxygen
- Flame arrestors - built into each bloc for increased operational safety
- Flexible lifting handles - on PowerSafe® SBS C11 battery and larger models for ease of handling during transport and installation
- Optional fabric removable flame retardant handle available for SBS "B" series (MISC-0345)
- Terminal insulating covers - fitted as standard for added safety
- All SBS front access batteries in this brochure have 6 cells / 12 volt
- All capacities detailed using IEC method

Installation & Operation

- PowerSafe Front Terminal battery models are designed for installation in cabinets and racks. A separate battery room is not necessary
- Recommended float charge voltage: 2.27Vpc at 77°F (25°C) 2.29Vpc at 68°F (20°C)
- Up to two year shelf life
- Reduced maintenance: no water addition required

Standards

- Meets criteria for "non-spillable" batteries. Properly packaged and identified non-spillable batteries are

exempt from U.S. and international dangerous goods regulations for ground, sea and air transportation. See applicable regulations and special provisions of the US DOT (U.S. Department of Transportation), ICAO (International Civil Aviation Organization), IATA (The Air Transport Association) and IMDG (International Maritime Code for Dangerous Goods)

- The management systems governing the manufacture of this product are ISO™ 9001:2000 and ISO™ 14001:2004 certified
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels

Telcordia® Values

Product Type SBS	CPR Code	CLEI Code
SBS-B8F	208151	PWHYAF4PAA
SBS-B10F	208152	PWHYAF5PAA
SBS-B14F	208153	PWHYAF6PAA
SBS-C11F	208150	PWHYAF3PAA
SBS100F	214082	PWHYAF3PAA
SBS112F	214083	PWHYAF4PAA
SBS145F	210108	PWHYAK7PAA
SBS170F	210722	PWHYAMGPAA
SBS190F	210723	PWHYAMHPAA

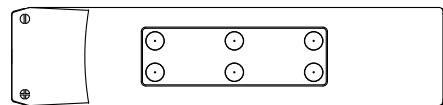
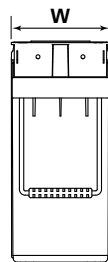
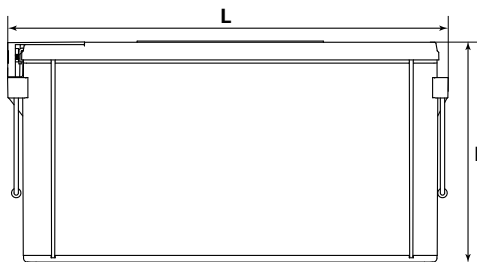
General Specifications

	Nominal Capacity (Ah)		Nominal Dimensions						Typical Weight		Short Circuit Current (A) ⁽¹⁾	Internal Resistance (mΩ) ⁽¹⁾	Terminals	Installation Torque	
	10 hr rate to 1.80Vpc @ 20°C	8 hr rate to 1.75Vpc @ 77°F	Length mm	Length in	Width mm	Width in	Height mm	Height in	kg	lbs				in-lbs	Nm
SBS B8F ^(2,4,5)	31	31	303	11.9	97	3.8	159	6.3	10.3	22.7	1584	7.7	M6 M	44	5
SBS B10F ^(4,5)	38	38	303	11.9	97	3.8	184	7.2	12.8	28.2	1968	6.2	M6 M	44	5
SBS B14F ^(3,4,5)	62	62	303	11.9	97	3.8	264	10.4	19.1	42.0	3210	3.8	M6 M	44	5
SBS C11F ^(1,3,4)	92	91	417	16.4	105	4.1	257	10.1	28.0	61.6	3696	3.3	M6 M	44	5
SBS 100F ^(1,3)	100	100	395	15.6	108	4.3	287	11.3	32.6	71.9	2210	5.6	M6 M	44	5
SBS 112F ⁽¹⁾	112	112	561	22.1	125	4.9	228	9.0	41.0	90.4	2500	5.0	M6 M	80	9
SBS 145F ^(1,3,4)	145	145	455	17.9	173	6.8	238	9.4	47.6	105.0	4100	3.0	M6 M	80	9
SBS 170F ^(1,3)	170	170	561	22.1	125	4.9	283	11.1	52.5	115.7	3400	4.0	M6 M	80	9
SBS 190F ^(1,3)	190	190	561	22.1	125	4.9	316	12.4	60.0	132.3	3800	3.3	M6 M	80	9

Notes

- ⁽¹⁾ Lifting handles on SBS C11F and SBS100F-190F
⁽²⁾ SBS B8F is available with a harness terminating in a 2-pin polarized plug-in connector, which is compliant with embedded power SLCsystems
⁽³⁾ EON Technology
⁽⁴⁾ Telcordia® NEBS compliant
⁽⁵⁾ Optical fabric handle (MISC-0345) available

Data subject to change without notice



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