

The introduction of EON Technology<sup>®</sup> further extends the technical leadership of PowerSafe<sup>®</sup> SBS batteries: not only do the PowerSafe SBS B14 - 190F monoblocs and SBS 410 cell retain the benefits typically associated with EnerSys<sup>®</sup> Thin Plate Pure Lead technology (long life, high energy density, superior shelf life, etc.), they now also deliver exceptional cyclic performance in both float and fast charge applications, even in the hottest and harshest operating environments.

Where conventional VRLA AGM batteries struggle to cope with harsh conditions, remote locations and frequent power outages, the combination of EON and TPPL technologies makes PowerSafe SBS 2V and 12V batteries the perfect solution for the challenging operating conditions of today's telecommunication networks.

With the introduction of the SBS 410 cell, the PowerSafe SBS EON Technology battery range is now available in two configurations: the front terminal design that allows for maximum back-up power within a given cabinet installation, and the top terminal design typically used for open rack installations.

For power, performance and reliability, there is no substitute to PowerSafe SBS EON Technology batteries.

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## RANGE SUMMARY

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### Features & Benefits

- Capacity Range: 62 - 410Ah
- Superior cyclic performance and endurance
- High energy density
- Exceptional fast charge acceptance ability
- Long design life
- Resilient to harsh environments
- Up to two year shelf life



## 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 mat separator with high absorption and stability
- Containers and lids - UL94 V-0 rated flame retardant ABS material, highly resistant to shock and vibration
- Electrolyte - high grade dilute sulphuric acid absorbed into separator material
- Terminal design - leak resistant patented dual seal terminal design
- Self-regulating pressure relief valves - prevent ingress of atmospheric oxygen

- Flame arrestors - built into each bloc for increased operational safety

## Installation and Operation

- PowerSafe® SBS batteries are designed for use in cabinets or on stands, close to the point of use. A separate battery room is not required
- PowerSafe SBS EON Technology® models can be mounted in any orientation except inverted
- Designed for operation in traditional float applications or cyclic/hybrid applications
- Up to two year shelf life
- Low maintenance: no water addition required
- Wide operating temperature range: -40°C to +50°C

## Standards

- Designed to be compliant with international standard IEC 60896/21 & 22
- Classified as "Long Life" according to Eurobat guide 1999
- Conforms to Telcordia® SR-4228
- Recognised by UL (UL Standard 1989)
- Approved as non-hazardous cargo for ground, sea and air transportation in accordance with US DOT Regulation 49 and ICAO & IATA Packing Instruction 872
- The management systems governing the manufacture of PowerSafe SBS products are ISO 9001:2008 and ISO 14001:2004 certified

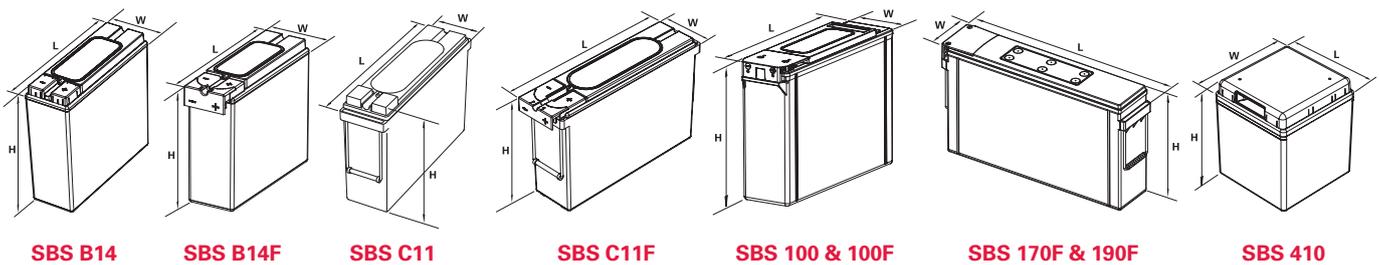
## General Specifications

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)		Nominal Dimensions (mm)			Typical Weight (kg)	Short Circuit Current (A) <sup>(1)</sup>	Internal Resistance (mΩ) <sup>(1)</sup>	Terminals
		10 hr rate to 1.80Vpc @ 20°C	8 hr rate to 1.75Vpc @ 77°F	Length	Width	Height				
SBS B14	12	62	62	280	97	264	19.1	1800	7.0	2 x M8 F
SBS B14F	12	62	62	303	97	264	19.1	1800	7.0	2 x M6 M
SBS C11 <sup>(2)</sup>	12	92	91	395	105	264	28.0	2300	5.5	2 x M8 F
SBS C11F <sup>(2)</sup>	12	92	91	417	105	256	28.0	2300	5.5	2 x M6 M
SBS 100 <sup>(2)</sup>	12	100	100	395	108	287	32.6	2210	5.6	2 x M8 F
SBS 100F <sup>(2)</sup>	12	100	100	395	108	287	32.6	2210	5.6	2 x M6 M
SBS 170F <sup>(2)</sup>	12	170	170	561	125	283	52.5	2750	4.5	2 x M6 M
SBS 190F <sup>(2)</sup>	12	190	190	561	125	316	60.0	3990	3.2	2 x M6 M
SBS 410 <sup>(2)</sup>	2	410	410	200	208	239	23.2	4725	1.3	2 x M8 M

Notes:

<sup>(1)</sup> Figures obtained via IEC method.

<sup>(2)</sup> With integral or rope handles.



www.enersys-emea.com

**EnerSys**  
**World Headquarters**  
 2366 Bernville Road  
 Reading, PA 19605  
 USA  
 Tel: +1 610 208 1991  
 +1 800 538 3627  
 Fax: +1 610 372 8613

**EnerSys EMEA**  
 EH Europe GmbH  
 Löwenstrasse 32  
 8001 Zürich  
 Switzerland

**EnerSys Asia**  
 152 Beach Road  
 Gateway East Building  
 Level 11  
 189721 Singapore  
 Tel: +65 6508 1780

Contact:

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