

SBS SR Series Low-Maintenance Vented Batteries

35AH - 250AH (6V and 12V Units)

SBS "SR" series batteries are long-life, stationary batteries suitable for short discharge at high current and high capacity discharge over longer periods. They are used as back-up power supplies in power stations, nuclear power stations, substations, UPS, industrial equipment, and engine starting applications.

The SR's lead selenium cells represent the best possible compromise in lead acid pasted plate technology. The two most popular alloys used in current pasted plate cells utilize either antimony or calcium as a hardening agent in lead alloys. Both of these additives produce desirable and undesirable effects on the performance and overall life of a battery. However, by utilizing a proportion of selenium

in the grid alloy, a dense fine grain structure is produced. This alloy is extremely corrosion-resistant and virtually eliminates inter-granular corrosion — one of the most common causes of cell failure. A lead selenium cell, therefore, combines the advantages of both lead calcium and lead antimony cells while exhibiting none of the disadvantages.

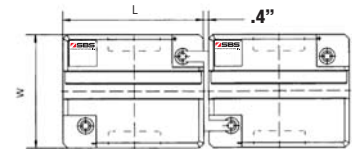
Applications:

- Utility
- Telecom
- General-purpose applications
- Switchgear
- UPS

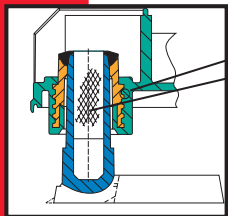
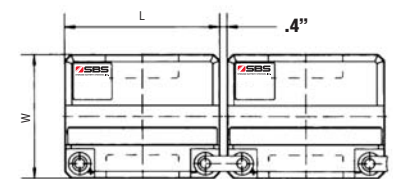
Features:

- 20-25 year design Life
- Watering intervals 1-3 years
- Leak-proof post seals
- High cycle life
- Safe-zero voltage exposed to personnel
- Maintenance-free intercell connections
- Withstands high temperature applications better than lead-calcium batteries
- **Typically always in stock and ready to ship!**

6V Batteries



12V Batteries



Solid brass inserts for **lower resistance.**

Specially cut and molded notches eliminate terminal corrosion.

Flame arrester vent caps **reduce watering to 1-3-years** intervals and reduce ventilation requirements by 50%.

Vent well **contains spilled electrolyte** or water, keeping batteries clean and dry.

Dust cover protects cells from contamination.

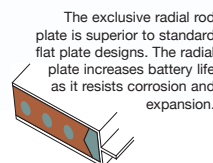
Fully insulated busbars and terminals **eliminate sparks and potential for explosion.**

Maintenance-free intercell connectors

Injected molded plastic **insulates intercell connectors.**



Built-in handles for easy lifting.



The exclusive radial rod plate is superior to standard flat plate designs. The radial plate increases battery life as it resists corrosion and expansion.

Construction

Positive plate	Radial rod plate utilizing selenium/low antimony alloy
Negative plate	Flat plate with calcium alloy grid
Separation	Microporous combined with corrugated separator
Casing material	ABS impact-resistant, transparent
Specific gravity	1.240 S.G. @ 77°F recommended-others available
Post design	Leakproof brass insert
Intercells	Solid copper bolt-on type, insulated with plastic
Vent caps	Flame arresting safety plugs mounted in containment well
Temperature range	30°F to 130°F (preferred 77°F or below)
Float voltage	2.23 V/cell without need to equalize
Equalizing voltage	2.33 - 2.40V/cell

20 Year Warranty

Standard	1-yr full + 19-yrs pro-rated
Option A	3-yrs full + 17-yrs pro-rated
Option B	5-yrs full + 15-yrs pro-rated

Cycle Life

Depth of Discharge	Number of Cycles
100%	800
80%	1,100
50%	1,850
30%	3,500

Technical Data

Part No.	8h AH Rate	Voltage (V)	Cell Dimensions (inches)	Weight (lbs)	Internal Resistance (mOhms)	Short Circuit (Amps)	No. of positive plates
SR12035	35	12	8.70L x 6.93W x 10.91H	46	12.2	983	2
SR12050	50	12	8.70L x 6.93W x 10.91H	55	8.1	1,487	3
SR12070	70	12	12.24L x 6.93W x 10.91H	74	6.1	1,960	4
SR12100	100	12	15.31L x 6.93W x 10.91H	100	4.1	2,934	6
SR12120	120	12	18.46L x 6.93W x 10.91H	118	3.5	3,433	7
SR12150	150	12	21.77L x 6.93W x 10.91H	144	2.7	4,399	9
SR06200	200	6	11.18L x 9.02W x 13.07H	100	1.7	3,604	7
SR06250	250	6	11.18L x 9.02W x 13.07H	114	1.3	4,610	9

1.75 V/Cell

Constant Discharge Current

Amps

Part No.	1 min	5 min	10 min	15 min	20 min	30 min	1h	2h	3h	5h	8h	10h
SR12035	115	86.0	66.0	54.0	45.8	35.4	21.7	13.0	9.47	6.33	4.22	3.48
SR12050	173	129	99.0	81.0	68.7	53.0	32.7	19.5	14.2	9.51	6.33	5.23
SR12070	230	171	132	108	91.5	70.8	43.5	26.0	19.0	12.7	8.45	6.97
SR12100	341	255	197	162	137	106	65.2	38.9	28.4	19.1	12.7	10.5
SR12120	397	297	230	188	160	124	76.1	45.4	33.2	22.1	14.8	12.2
SR12150	505	380	294	241	205	159	97.9	58.3	42.6	28.5	19.1	15.7
SR06200	476	401	329	279	243	194	123	73.5	54.0	36.2	24.4	20.0
SR06250	612	511	420	354	312	248	158	94.6	69.4	46.5	31.3	25.8

Constant Discharge Power

Watts/Cell

Part No.	1 min	5 min	10 min	15 min	20 min	30 min	1h	2h	3h	5h	8h	10h
SR12035	198	151	117	96.8	83.4	64.9	40.2	23.7	17.5	11.3	7.21	6.18
SR12050	296	228	176	145	125	97.9	60.8	36.1	26.8	17.5	11.3	9.27
SR12070	392	302	235	194	166	130	81.4	48.4	36.1	23.7	15.5	13.4
SR12100	584	451	352	290	249	195	122	73.1	53.6	36.1	23.7	19.6
SR12120	679	524	410	339	290	228	142	85.5	62.8	42.2	27.8	23.7
SR06150	864	671	525	435	373	293	183	110	80.3	54.6	36.1	29.9
SR06200	806	705	583	499	437	351	228	138	102	68.0	46.4	38.1
SR06250	1,023	898	744	639	560	451	291	177	131	88.6	59.7	49.4