

SBS STT Series Low Maintenance Vented Batteries

110-3585AH+ (2 Volt Cells)

SBS "STT" series batteries are 20-25 year stationary batteries and were developed for utility, telecom and general purpose applications. They are distinguished by their economical design, lead selenium tubular plate design, and their high tolerance to cycling.

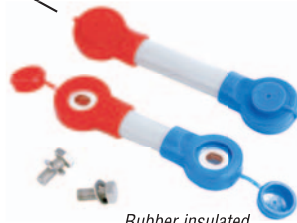
The STT's tubular lead selenium cells provide the best possible compromise in lead acid plate technology. By utilizing a proportion of selenium in the grid alloy, a dense fine grain structure is produced. This alloy is extremely corrosion-resistant and virtually eliminates inter-granular corrosion — 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:

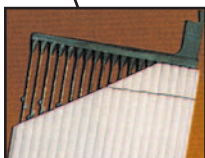
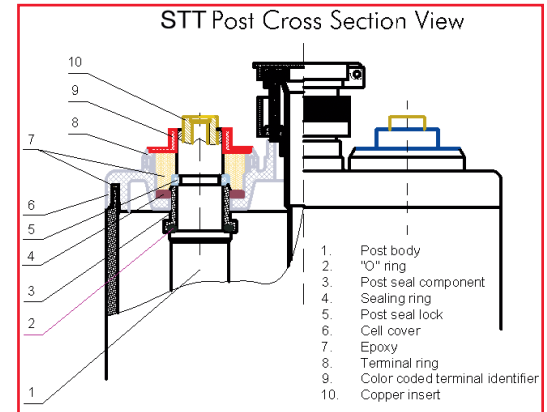
- Utility (stations and substations)
- Nuclear Power
- Power Distribution
- Telecom Equipment
- UPS
- Switchgear

Features:

- 20-25 year design life
- Watering intervals = 1-3 years
- Leak-proof post seal
- High cycle life
- No positive plate growth
- Tank formed plates
- Flame retardant ABS cover
- Safe – zero voltage exposed to personnel
- Flip-top easy-fill flame-retardant vent caps
- Withstands high temperature applications better than lead-calcium batteries
- **Typically always in stock and ready to ship!**



Rubber insulated flexible copper cable intercell connector



Advanced designed tubular plates with lead selenium alloy reduces grid corrosion and increases life. Increasing surface area of active material improves high-rate capacity.

Construction	
Positive plate	Tubular plate with low antimony / calcium / selenium alloy (.34")
Negative plate	Flat plate grid
Separation	Microporous combined with corrugated separator
Case material	Styrene-acrylonitrile (SAN), impact resistant
Cover material	Flame retardant ABS, UL 94 VO rated
Specific gravity	1.240 S.G. @ 77F recommended - others available
Post design	Leak-proof with brass insert
Intercells	Fully insulated flexible copper cables
Vent caps	Flip-top flame-arrester type
Temp. range	30F to 130F (preferred temp. 77F or below)
Float Voltage	2.23 V/cell without need to equalize
Equalize Voltage	2.33-2.40 V/cell

20 Year Warranty

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

Cycle Life

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

Technical Data

P/N	8Hr AH rate	Voltage (V)	Cell Dimensions (in.)	Weight with Acid (lbs)	Weight without Acid (lbs)	I.R. (mOhms)	Short Circuit Amps	# of pos. plates
STT2V100	110	2	4.06L x 8.11W x 15.0H	32.9	21.7	1.55	1310	2
STT2V150	165	2	4.06L x 8.11W x 15.0H	35.4	25.4	1.15	1789	3
STT2V200	220	2	4.06L x 8.11W x 15.0H	37.9	29.1	0.73	2762	4
STT2V250	270	2	4.89L x 8.11W x 15.0H	45.8	35.7	0.64	3170	5
STT2V300	325	2	5.71L x 8.11W x 15.0H	53.5	42.3	0.52	3861	6
STT2V350	395	2	4.89L x 8.11W x 19.6H	59.2	42.7	0.57	3559	5
STT2V420	475	2	5.71L x 8.11W x 19.6H	69.3	51.5	0.53	3802	6
STT2V490	550	2	6.54L x 8.11W x 19.6H	79.5	60.3	0.48	4193	7
STT2V600	660	2	5.71L x 8.11W x 26.5H	98.6	74.6	0.47	4274	6
STT2V800	865	2	8.27L x 7.52W x 26.5H	135	99.7	0.4	5025	8
STT2V1000	1090	2	8.27L x 9.18W x 26.5H	164	122	0.3	6711	10
STT2V1200	1310	2	8.27L x 10.9W x 26.5H	194	145	0.29	6969	12
STT2V1500	1755	2	8.27L x 10.9W x 32.4H	252	192	0.29	7018	12
STT2V2000	2340	2	8.35L x 15.7W x 31.4H	366	271	0.18	11111	16
STT2V2500	2920	2	8.35L x 19.2W x 31.4H	449	335	0.16	12658	20
STT2V3000	3585	2	8.35L x 22.7W x 31.4H	533	394	0.15	13605	24

Performance Data

Constant current discharge in Amperes to 1.75V/cell

	1 min*	15 min	30 min	1h	1.5h	2h	3h	4h	5h	6h	8h	24h
STT2V100	150	110	81.3	55.0	43.1	36.0	27.6	22.8	19.2	17.0	13.7	5.34
STT2V150	225	165	122	82.5	64.7	54.0	41.4	34.2	28.9	25.5	20.6	8.01
STT2V200	300	220	163	110	86.3	72.0	55.2	45.6	38.5	34.0	27.5	10.6
STT2V250	375	275	203	139	108	90.0	68.7	57.1	48.2	42.4	33.7	13.3
STT2V300	450	331	244	166	130	108	82.4	68.5	57.8	50.9	40.6	16.0
STT2V350	450	311	249	189	154	130	99.9	82.2	69.8	60.8	49.3	19.0
STT2V420	540	372	300	227	183	156	120	98.7	83.8	73.0	59.3	22.8
STT2V490	630	435	349	264	215	181	140	114	97.9	85.1	68.8	26.6
STT2V600	690	463	399	317	261	221	172	143	119	104	82.5	31.9
STT2V800	920	616	531	422	347	296	231	191	159	139	108	42.5
STT2V1000	1150	769	664	528	435	369	287	238	198	174	136	53.2
STT2V1200	1380	924	797	635	521	442	345	285	238	209	164	63.8
STT2V1500	1620	1034	905	735	624	544	432	358	306	270	219	82.2
STT2V2000	2160	1379	1207	981	834	725	576	478	408	361	293	109
STT2V2500	2700	1724	1509	1226	1043	906	723	600	510	450	365	137
STT2V3000	3240	2068	1812	1470	1252	1085	864	718	612	540	448	164

*Estimate - for sizing purposes only - tubular plate batteries are not meant for short high rate discharges.

