

STT Series Low Maintenance Tubular Flooded Batteries

110 – 3,585Ah (2 Volt Cells)

SBS has been selling tubular lead-selenium vented batteries for nearly 20 years. SBS was the first company to actively push this technology to the US market. The combination of the tubular positive plates and the lead selenium/low antimony alloy provides the best possible combination in lead-acid plate technology. The battery world favors tubular positive plates for flooded, Gel & AGM applications. STT batteries are manufactured in accordance with OPzS DIN40736 standards.

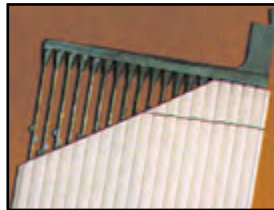
Lead Selenium/Low-Antimony

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

Tubular Positive Plates

Due to increased positive plate surface area, tubular plates have more electrical capacity than flat plates of comparable size and weight. With positive plate shedding eliminated, tubular batteries also provide up to a 30% longer service life than flat plate batteries.

Perhaps most importantly to stationary applications, the tubular positive grid does not require horizontal bars, which virtually eliminates positive plate growth and therefore post seal leaks and jar cracking. As a result, in applications which require a long service life, tubular plate batteries provide the best and most reliable power.



Features

- 20 year design life
- Watering intervals: 1–3 years
- Leak-proof post seal
- High cycle life: 1200+ cycles @ 80% DOD
- 100%+ capacity upon delivery
- No positive plate growth
- Tank formed plates
- Safe — zero voltage exposed to personnel
- Flip-top, easy-fill, flame arrestor vent caps
- Withstands high temperature applications better than lead-calcium batteries
- **Many in stock and ready to ship!**

Applications

- Switchgear/Substations
- Power Generation
- Microwave Relay Sites
- Telecommunications
- Solar/Photovoltaic
- Oil and Gas

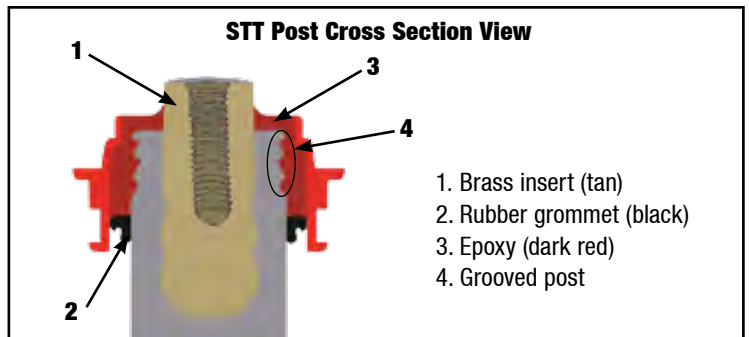
FLOODED BATTERIES



Insulated flexible intercell connectors standard.



Optional solid un-insulated intercell connectors available.



Construction

Positive Plate	Tubular plate with selenium/low antimony alloy (0.34" thick)
Negative Plate	Pasted flat radial structure
Separation	Microporous combined with corrugated separator
Case Material	Styrene-acrylonitrile (SAN), impact resistant
Cover Material	Styrene-acrylonitrile (SAN)
Specific Gravity	1.240 S.G. @ 77°F
Post Design	Leak-proof with brass insert
Intercells	Fully insulated flexible copper cables (un-insulated bars optional)
Vent Caps	Flip-top flame arrestor with dust cap
Temp. Range	-4°F to 130°F (68-77°F recommended)
Float Voltage	2.23 V/cell
Equalize Voltage	2.33-2.40 V/cell

Standard STT Kit Includes

- Intercell—connector cables
- Jumper cable(s)
- Flip—top flame arrestor vent caps
- No—oxide grease
- Cell numbers
- Brass wire brush
- Utility funnel
- STT installation & operating manual

Accessory Ordering Information

Part No.	Description
Z1G	Hydrometer w/glass float (1.100 – 1.320 scale)
HY—HOLDER	Hydrometer holder w/drip cup
1353	Thermometer w/SG correction factor table (–20° – 130°F)
715874XXXX	Copper termination plate for STT2VXXXX (plated)
STRAP—6FT	6 ft lifting strap (for STT2V100 – STT2V490)
STRAP—8FT	8 ft lifting strap (for STT2V600 and larger)

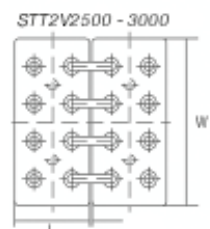
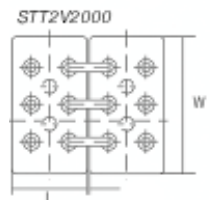
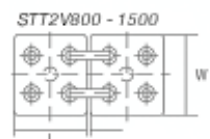
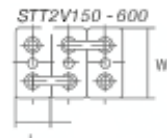
Technical Data

Part No.	8 Hr Ah Rate	Voltage (V)	Cell Dimensions L x W x H (in.)	Weight w/ Electrolyte (lbs.)	Electrolyte Weight (lbs.)	Electrolyte (Gallons)	I.R. (mOhms)	Max. Current Amps (5 sec)	No. of Pos. Plates
STT2V100	110	2	4.06 x 8.11 x 16.1	28.8	12.3	1.2	1.55	1310	2
STT2V150	165	2	4.06 x 8.11 x 16.1	34.2	11.1	1.1	1.15	1789	3
STT2V200	220	2	4.06 x 8.11 x 16.1	39.6	9.90	1.0	0.95	3129	4
STT2V250	275	2	4.89 x 8.11 x 16.1	46.2	11.0	1.1	0.76	3345	5
STT2V300	330	2	5.71 x 8.11 x 16.1	55.0	13.2	1.3	0.70	3661	6
STT2V350	395	2	4.89 x 8.11 x 20.7	61.6	14.3	1.4	0.65	3804	5
STT2V420	475	2	5.71 x 8.11 x 20.7	73.7	17.6	1.7	0.58	4042	6
STT2V490	550	2	6.54 x 8.11 x 20.7	85.8	22.0	2.1	0.50	4311	7
STT2V600	660	2	5.71 x 8.11 x 27.6	102	26.4	2.6	0.45	4409	6
STT2V800	865	2	8.27 x 7.52 x 27.6	141	35.2	3.4	0.41	4732	8
STT2V1000	1090	2	8.27 x 9.18 x 27.6	170	44.0	4.3	0.37	5243	10
STT2V1200	1310	2	8.27 x 10.9 x 27.6	203	52.8	5.1	0.34	5706	12
STT2V1500	1755	2	8.27 x 10.9 x 33.5	247	66.0	6.4	0.32	6063	12
STT2V1750	2047	2	8.35 x 15.7 x 32.6	296	78.0	7.5	0.30	6495	14
STT2V2000	2340	2	8.35 x 15.7 x 32.6	330	88.0	8.5	0.28	6929	16
STT2V2500	2920	2	8.35 x 19.2 x 32.6	418	110	10.6	0.24	7462	20
STT2V3000	3585	2	8.35 x 22.7 x 32.6	495	136	13.2	0.20	8083	24

Performance Data

Constant current discharge in Amperes to 1.75 V/cell at 77°F

Part No.	1 min	15 min	30 min	1 hr	1.5 hr	2 hr	3 hr	5 hr	6 hr	8 hr	24 hr
STT2V100	150	109	80.3	54.6	42.6	35.5	27.2	19.0	16.8	13.7	5.34
STT2V150	225	163	121	81.9	64.0	53.3	40.9	28.5	25.2	20.6	8.01
STT2V200	300	217	161	109	85.3	71.1	54.5	38.0	33.6	27.5	10.6
STT2V250	375	272	201	137	107	88.8	67.9	47.6	41.9	34.2	13.3
STT2V300	450	327	241	164	128	107	81.4	57.1	50.4	41.0	16.0
STT2V350	450	307	246	186	151	128	98.7	69.0	60.0	49.3	19.0
STT2V420	540	369	296	224	181	153	118	82.8	71.1	59.3	22.8
STT2V490	630	430	345	261	212	179	138	96.6	84.0	68.8	26.6
STT2V600	690	456	393	313	258	218	170	117	103	82.5	31.9
STT2V800	920	609	524	417	343	291	228	157	137	108	42.5
STT2V1000	1150	760	656	522	430	365	284	196	172	136	53.2
STT2V1200	1380	913	787	626	515	438	341	235	206	164	63.8
STT2V1500	1620	1022	894	726	617	537	426	302	267	219	82.2
STT2V1750	1890	1118	978	793	674	588	470	337	298	256	95.0
STT2V2000	2160	1277	1118	907	771	672	537	385	341	293	109
STT2V2500	2700	1703	1490	1210	1030	895	714	504	445	365	137
STT2V3000	3240	2042	1789	1451	1236	1071	854	605	534	448	164



SBS reserves the right to change specifications and designs without notice.

Illustrations, data, dimensions and weights given in this brochure are for guidance only and cannot be held binding on the company.