

STT Series Low Maintenance Tubular Flooded Batteries

55-330AH (6 & 12 Volt Blocks)

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

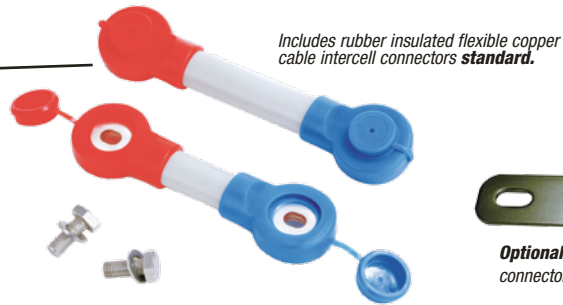
The STT's tubular lead selenium cells provide the best possible compromise in lead acid plate technology. By utilizing a proportion of selenium in the grid alloy, a dense fine grain structure is produced. This alloy is extremely corrosion-resistant and virtually eliminates inter-granular corrosion —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

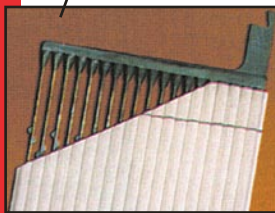
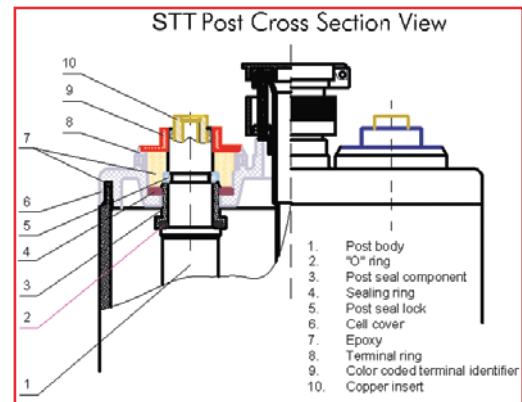
- Utility (stations and substations)
- Switchgear
- Power Distribution
- Telecom Equipment
- Solar/Photovoltaic
- UPS

Features:

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



Optional solid un-insulated intercell connectors available.



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 / selenium alloy (.34")
Negative plate	Pasted flat radial structure
Separation	Microporous combined with corrugated separator
Case material	Styrene-acrylonitrile (SAN), impact resistant
Cover material	SAN (Flame retardant option available)
Specific gravity	1.240 S.G. @ 77°F - other options available
Post design	Leak-proof with brass insert
Intercells	Fully insulated flexible copper cables (solid un-insulated bars optional)
Vent caps	Flip-top flame arrestor with dust cap
Temp. range	-4°F to 130°F (preferred temp. 68-77°F)
Float Voltage	2.23 V/cell without need to equalize
Equalize Voltage	2.33-2.40 V/cell

Technical Data

Part No.	8Hr AH rate	Voltage (V)	Battery Dimensions (in.)	Weight w/ Electrolyte (lbs)	Electrolyte Weight (lbs)	I.R. (mOhms)	Short Circuit Amps	No. of Positive plates
STT12V50	55	12	10.7L x 8.08W x 15.1H	82	25.3	17.3	694	1
STT12V100	110	12	10.7L x 8.08W x 15.1H	106	19.8	10.5	1143	2
STT12V150	165	12	15.0L x 8.08W x 15.1H	150	30.8	7.1	1690	3
STT6V200	220	6	10.7L x 8.08W x 15.1H	100	23.1	2.4	2500	4
STT6V250	275	6	15.0L x 8.08W x 15.1H	130	30.8	2.1	2857	5
STT6V300	330	6	15.0L x 8.08W x 15.1H	143	30.8	1.8	3333	6

Performance Data

Constant current discharge in Amperes to 1.75V/cell at 77°F												
	1 min	15 min	30 min	1h	1.5h	2h	3h	4h	5h	6h	8h	24h
STT12V50	75.0	54.3	40.2	27.3	21.3	17.8	13.6	11.3	9.50	8.39	6.85	2.67
STT12V100	150	109	80.3	54.6	42.6	35.5	27.2	22.6	19.0	16.8	13.7	5.34
STT12V150	225	163	121	81.9	64.0	53.3	40.9	33.8	28.5	25.2	20.6	8.01
STT6V200	300	217	161	109	85.3	71.1	54.5	45.1	38.0	33.6	27.5	10.6
STT6V250	375	272	201	137	107	88.8	67.9	56.3	47.6	41.9	34.2	13.3
STT6V300	450	327	241	164	128	107	81.4	67.7	57.1	50.4	41.0	16.0

Cycle Life

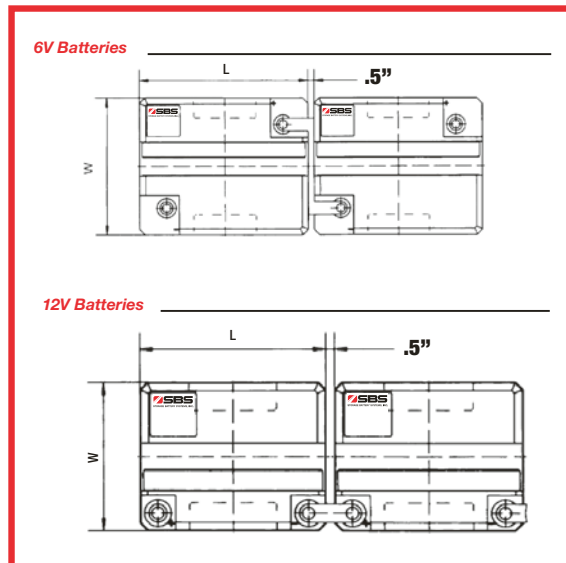
Depth of Discharge	Number of Cycles
100%	800
80%	1,100
50%	1,850
30%	3,500

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



Recommended Spacing Between Blocks



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.