

STT Series Low Maintenance Tubular Flooded Batteries

OPzS 6 & 12 Volt Blocks (55–330 Ah)

SBS has been selling tubular lead-selenium vented batteries for nearly 20 years. SBS was the first company to actively introduce 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 and AGM applications. STT batteries are manufactured in accordance with OPzS DIN 40736 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 inter-granular 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 Plate Advantages

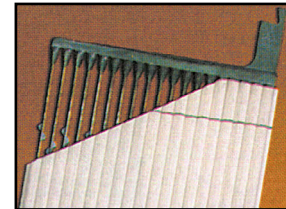
Due to increased positive plate surface area, tubular plates have more electrical capacity than flat plates of comparable size and weight.

With positive plate shedding eliminated, tubular batteries also provide up to a 30% longer service life compared to 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 at 77° F
- Watering intervals: 1–3 years
- Leak-proof post seal
- High cycle life:
 - 1200+ cycles @ 80% DOD
 - 2000+ cycles @ 60% DOD
- 100%+ capacity upon delivery
- No positive plate growth damage
- 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
- **Typically in stock and ready to ship!**



Applications

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



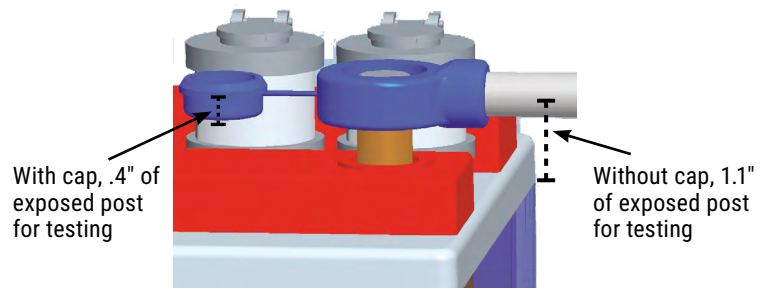
Construction

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 (uninsulated bars optional)
Vent Caps	Flip-top flame arrestor with dust cap
Temp. Range	-4° to 131° F (68° to 77° F recommended)
Float Voltage	2.23 V/cell
Equalize Voltage	2.33–2.40 V/cell

Option: taller posts available upon request (shown below)



Shown with and without removable protective caps



With cap, .4" of exposed post for testing

Without cap, 1.1" of exposed post for testing

Technical Data

Part No.	OPzS DIN Std. 30736	8 hr. Ah Rate	Voltage (V)	Battery Dimensions L x W x H (in.)	Weight w/ Electrolyte (lb.)	Electrolyte Weight (lb.)	Electrolyte (Gallons)	Short Circuit Current (Amps)
STT12V50	12V 1 OPzS 50	55	12	10.7 x 8.08 x 15.1	86.0	23.8	2.3	620
STT12V100	12V 2 OPzS 100	110	12	10.7 x 8.08 x 15.1	107	22.5	2.2	1260
STT12V150	12V 3 OPzS 150	165	12	15.0 x 8.08 x 15.1	149	31.7	3.1	1780
STT6V200	6V 4 OPzS 200	220	6	10.7 x 8.08 x 15.1	101	24.2	2.3	2240
STT6V250	6V 5 OPzS 250	275	6	15.0 x 8.08 x 15.1	130	31.9	3.1	2660
STT6V300	6V 6 OPzS 300	330	6	15.0 x 8.08 x 15.1	144	30.4	2.9	3040

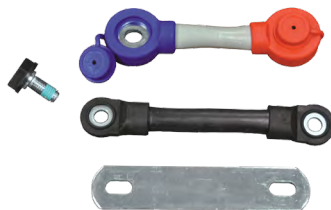
Performance Data

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.
STT12V50	75.0	54.3	40.2	27.3	21.3	17.8	13.6	9.50	8.39	6.85	2.67
STT12V100	150	109	80.3	54.6	42.6	35.5	27.2	19.0	16.8	13.7	5.34
STT12V150	225	163	121	81.9	64.0	53.3	40.9	28.5	25.2	20.6	8.01
STT6V200	300	217	161	109	85.3	71.1	54.5	38.0	33.6	27.5	10.6
STT6V250	375	272	201	137	107	88.8	67.9	47.6	41.9	34.2	13.3
STT6V300	450	327	241	164	128	107	81.4	57.1	50.4	41.0	16.0

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
- Installation & Operation Manual



Insulated flexible intercell connectors standard. Optional accessories on pages 5 and 6.



Flip-top, easy-fill, flame arrestor vent caps

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.