

STT Series Low Maintenance Tubular Flooded Batteries

OPzS 6 & 12 Volt BLOCS (50-300 Ah)
OPzS 2 Volt Cell (113-3,302 Ah)

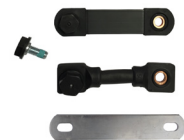


Standard STT Kit Includes

- 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

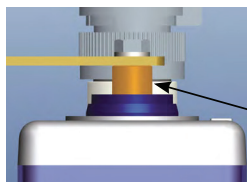


Flip-top, easy-fill, flame arrestor vent caps



Insulated flexible intercell connectors standard.

Construction	
Positive Plate	High energy density tubular design with low antimony alloy for extended watering intervals
Negative Plate	Industry leading negative plate design
Separator	High-porosity and corrosion-resistant ensures maximum capacity for the lifetime of the cell
Container	Manufactured from Styrene-Acrylonitrile resin (SAN) which is durable and heat resistant
Terminal	Maintains an airtight seal even when the plates expand and grow throughout the lifetime of the cell
Gauntlet	Non-woven, high-capacity polyester gauntlet
Electrolyte	Acid density of 1.24kg/l ensures low self-discharge rates and long design life of the cell
Lid	Manufactured from Acrylonitrile-Butadiene-Styrene (ABS) which is durable and heat resistant



With 0.5" of exposed post for testing

Features

- High energy density
- Robust tubular positive electrode design, compliant with DIN 40736-1
- Minimal maintenance due to low antimony alloy and large electrolyte volume
- Operating temperature -20°C to +55°C
- Compliant with: IEC60896-11
- Low self discharge rate of approximately 3% per month at 20°C
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO₂ footprint
- 20 year design life at 20°C
- 6&12V Blocs compliant with DIN 40737-3

Applications

- Telecommunications
- Traffic Systems
- UPS Systems
- Emergency Lighting
- Electrical Switching



Technical Data

Part No.	DIN Cell Type	Voltage (V)	8 hr. Ah Rate 1.75V/cell at 20oC	Length (in)	Width (in)	Height over lid (in)	Height over pillar (in)	Dry weight (lb)	Filled weight (lb)	Internal Resistance (mOhm)	Short circuit current (A)
STT2V100	2 OPzS-100	2	113	4.06	8.11	13.98	14.49	18.30	29.32	0.95	1075
STT2V150	3 OPzS-150	2	169	4.06	8.11	13.98	14.49	23.15	33.73	0.94	1613
STT2V200	4 OPzS-200	2	225	4.06	8.11	13.98	14.49	28.44	39.02	0.89	2150
STT2V250	5 OPzS-250	2	279	4.88	8.11	13.98	14.49	34.17	46.96	0.74	2650
STT2V300	6 OPzS-300	2	331	5.71	8.11	13.98	14.49	40.34	55.56	0.63	3200
STT2V350	5 OPzS-350	2	397	4.88	8.11	18.54	19.06	44.09	60.41	0.67	2850
STT2V420	6 OPzS-420	2	476	5.71	8.11	18.54	19.06	51.59	73.41	0.57	3450
STT2V490	7 OPzS-490	2	556	6.54	8.11	18.54	19.06	58.86	81.35	0.5	4050
STT2V600	6 OPzS-600	2	674	5.71	8.11	25.47	25.98	70.77	90.61	0.47	4300
STT2V800	8 OPzS-800	2	906	8.27	7.52	25.47	25.98	99.21	133.16	0.33	5700
STT2V900	9 OPzS-900	2	1017	8.27	9.17	25.47	25.98	115.74	157.63	0.27	6400
STT2V1000	10 OPzS-1000	2	1130	8.27	9.17	25.47	25.98	120.15	162.26	0.27	7100
STT2V1200	12 OPzS-1200	2	1346	8.27	10.83	25.47	25.98	140.65	191.14	0.23	8550
STT2V1500	12 OPzS-1500	2	1647	8.27	10.83	31.38	31.89	169.98	232.81	0.23	8450
STT2V1750	14 OPzS-1750	2	1924	8.43	15.71	30.39	30.91	206.13	294.32	0.17	10650
STT2V2000	16 OPzS-2000	2	2199	8.43	15.71	30.39	30.91	228.84	322.32	0.17	12150
STT2V2500	20 OPzS-2500	2	2751	8.35	19.17	30.39	30.91	281.09	394.19	0.13	15200
STT2V3000	24 OPzS-3000	2	3302	8.35	22.64	30.39	30.91	324.30	460.99	0.11	18300

Part No.	DIN Cell Type	Voltage (V)	8 hr. Ah Rate 1.75V/cell at 20oC	Actual Capacity C10 1.80 VPC at 200C (Ah)	Length max. (in)	Width max. (in)	Height over lid max. (in)	Height over pillar max. (in)	Dry weight (lb)	Filled weight (lb)	Internal Resistance (mOhm)	Short circuit current (A)
STT6V200	6V 4 OPzS-200*	6	225	230	10.71	8.07	13.74	15.75	77.60	103.84	2.80	2150
STT6V250	6V 5 OPzS-250*	6	281	285	14.96	8.07	13.74	15.75	95.90	134.26	2.50	2620
STT6V300	6V 6 OPzS-300*	6	338	345	14.96	8.07	13.74	15.75	111.33	147.93	2.10	2960
STT12V50	12V 1 OPzS-50	12	57	58	10.71	8.07	13.74	15.75	53.79	83.11	18.20	670
STT12V100	12V 2 OPzS-100	12	113	115	10.71	8.07	13.74	15.75	83.11	108.91	9.40	1220
STT12V150	12V 3 OPzS-150	12	169	172	380	205	349	400	116.84	153.88	6.60	1800

± 5% weight tolerance

* 6V bloc batteries are manufactured in both type A and type B versions; see diagram below



Constant Current Discharge Data

1.75 VpC	Discharge in A at 20°C													
	3m	10m	15m	20m	30m	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
STT2V100	127.8	118.8	107.8	97.8	83.1	57.3	45.9	38.65	30.0	24.4	20.6	14.1	11.6	6.4
STT2V150	191.6	178.2	161.6	146.7	124.6	86	68.8	58	45	36.5	30.8	168.8	17.4	9.5
STT2V200	255.5	237.6	215.5	195.6	166.1	114.6	91.7	77.3	60.0	48.7	41.1	28.1	23.2	12.7
STT2V250	310.6	289.5	263.1	237.7	203.9	141.6	113.1	95.9	74.0	60.0	50.8	34.8	28.8	15.8
STT2V300	363.6	338.2	307.4	278.8	239.6	167.5	134.6	114.5	87.6	71.0	60.5	41.3	34.6	18.9
STT2V350	350.5	332.6	311.6	295.8	260.0	200.0	161.1	135.8	102.4	83.9	71.6	49.6	41.2	22.6
STT2V420	404.0	384.0	359.7	340.7	303.8	233.1	189.9	160.4	122.4	100.2	85.9	59.5	49.5	27.1
STT2V490	462.8	439.5	412.1	389.9	346.6	266.3	218.7	186.0	143.7	117.3	100.3	69.4	57.7	31.6
STT2V600	487.1	468.8	443.4	422.1	386.6	310.5	261.8	223.2	169.5	138.0	117.7	84.2	71.0	39.0
STT2V800	710.7	684.4	636.9	598.5	539.9	434.7	356.9	306.3	228.5	186.0	158.7	113.2	93.8	52.0
STT2V900	765.4	737.2	690.9	652.8	593.7	477.5	397.6	339.6	255.2	207.9	177.9	127.1	106.2	58.5
STT2V1000	850.4	819.1	767.7	725.3	659.7	530.6	441.8	377.3	283.5	231.0	197.7	141.2	118.0	65.0
STT2V1200	975.1	938.8	887.4	844.1	772.6	621.5	524.8	446.2	338.5	275.0	234.7	168.2	142.0	78.0
STT2V1500	937.6	924.0	895.9	858.0	799.8	656.1	580.4	508.6	400.9	335.8	292.1	205.8	172.8	94.5
STT2V1750	1193.5	1176.4	1129.4	1078.0	996.7	798.3	699.0	603.1	468.0	391.8	340.6	240.5	201.1	110.3
STT2V2000	1364.0	1344.4	1290.7	1232.0	1139.1	912.3	798.8	689.3	534.8	447.8	389.2	274.8	229.8	126.1
STT2V2500	1704.0	1679.5	1615.6	1537.1	1424.1	1144.2	996.9	861.3	667.9	558.8	487.1	343.8	287.8	158.1
STT2V3000	1970.1	1940.6	1871.6	1783.0	1650.0	1339.7	1172.2	1014.6	801.9	670.8	584.1	412.7	344.8	189.1
STT6V200	255.5	237.6	215.5	195.6	166.1	114.6	91.7	77.3	60.0	48.7	41.1	28.1	23.2	12.7
STT6V250	319.4	297.0	269.4	244.5	207.6	143.3	114.6	96.6	75.0	60.9	51.4	35.1	29.0	15.9
STT6V300	383.3	356.4	323.3	293.4	249.2	171.9	137.6	116.0	90.0	73.1	61.7	42.2	34.8	19.1
STT12V50	63.9	59.4	53.9	48.9	41.5	28.7	22.9	19.3	15.0	12.2	10.0	7.0	5.8	3.2
STT12V100	127.8	118.8	107.8	97.8	83.1	57.3	45.9	38.7	30.0	24.4	21.0	14.1	11.6	6.4
STT12V150	191.6	178.2	161.6	146.7	124.6	86.0	68.8	58.0	45.0	36.5	30.8	21.1	17.4	9.5



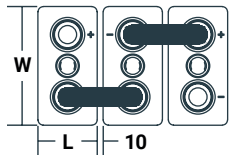
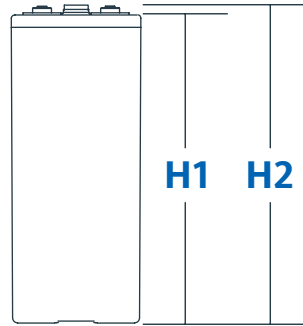
Constant Power Discharge Data

1.75 VpC	Discharge in W at 20°C													
	3m	10m	15m	20m	30m	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
STT2V100	224.5	210.8	191.9	174.5	149.8	105.1	84.6	72.0	56.8	46.1	39.3	27.1	22.5	12.5
STT2V150	336.7	316.2	287.8	261.8	224.7	157.7	127.0	108.0	85.2	69.2	58.9	40.7	33.8	18.7
STT2V200	448.9	421.6	383.8	349.1	299.6	210.3	169.3	144.0	113.6	92.2	78.5	54.3	45.0	24.9
STT2V250	546.3	512.5	467.0	424.8	366.6	258.9	209.2	179.6	139.5	114.1	97.3	67.1	56.0	31.0
STT2V300	639.3	599.0	547.0	497.2	431.5	306.4	249.1	214.1	165.4	134.6	115.6	79.8	66.9	37.1
STT2V350	616.8	589.5	554.7	527.4	468.4	365.3	298.9	252.6	192.6	158.9	136.8	95.9	79.9	44.3
STT2V420	711.0	679.4	640.4	608.7	545.4	426.2	351.3	300.7	232.1	189.9	164.6	115.0	95.9	53.2
STT2V490	813.6	776.6	732.2	695.2	623.4	487.1	405.7	346.6	270.5	221.9	191.2	134.2	112.0	62.1
STT2V600	854.4	830.0	788.4	753.9	695.1	568.2	486.0	416.0	318.6	260.8	224.3	162.4	138.0	76.5
STT2V800	1243.5	1213.2	1132.3	1066.6	970.5	794.6	661.2	572.2	429.7	351.8	304.3	218.4	182.0	102.1
STT2V900	1343.7	1302.8	1230.2	1166.6	1066.8	873.4	736.3	633.7	481.2	393.1	339.6	245.1	206.1	114.4
STT2V1000	1493.0	1447.6	1366.9	1296.3	1185.3	970.4	818.1	704.1	534.6	436.8	377.3	272.4	229.0	127.1
STT2V1200	1707.4	1662.0	1576.4	1505.9	1390.1	1138.2	971.0	832.0	637.6	519.8	449.3	325.4	276.0	153.1
STT2V1500	1640.3	1625.7	1582.1	1528.7	1426.8	1174.4	1043.4	923.0	738.6	623.1	548.4	391.1	331.0	183.4
STT2V1750	2087.6	2070.4	1993.4	1920.7	1779.6	1428.8	1257.7	1095.1	864.1	727.2	639.1	456.9	385.0	213.9
STT2V2000	2385.8	2366.2	2278.2	2195.1	2033.8	1632.9	1437.3	1251.6	987.6	831.1	730.4	522.1	440.0	244.4
STT2V2500	2980.8	2956.3	2853.1	2736.3	2543.8	2047.8	1792.4	1561.6	1232.6	1036.2	914.4	653.1	551.0	306.4
STT2V3000	3447.8	3413.3	3304.9	3171.9	2945.4	2398.7	2108.1	1842.1	1477.6	1241.2	1098.4	784.1	660.0	366.4
STT6V200	447.1	415.8	377.1	342.3	290.7	200.6	160.5	135.3	105.0	85.2	71.9	49.2	40.6	22.2
STT6V250	558.9	519.8	471.4	427.9	363.3	250.7	200.6	169.1	131.3	106.5	89.9	61.5	50.8	27.8
STT6V300	670.7	623.7	565.7	513.5	436.0	300.8	240.7	202.9	157.5	127.8	107.9	73.8	60.9	33.3
STT12V50	111.8	104.0	94.3	85.6	72.7	50.1	40.1	33.8	26.3	21.3	18.0	12.3	10.2	5.6
STT12V100	223.6	207.9	188.6	171.2	145.3	100.3	80.2	67.6	52.5	42.6	36.0	24.6	20.3	11.1
STT12V150	335.3	311.9	282.8	256.7	218.0	150.4	120.4	101.5	78.8	63.9	53.9	36.9	30.5	16.7

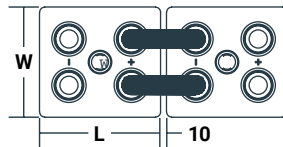


H1: Height over lid
H2: Height over pillar
M10 threaded terminal
Torque: 23Nm

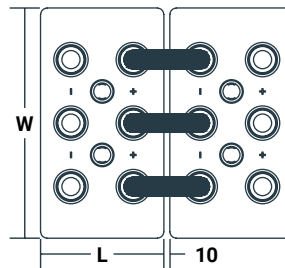
Not to scale



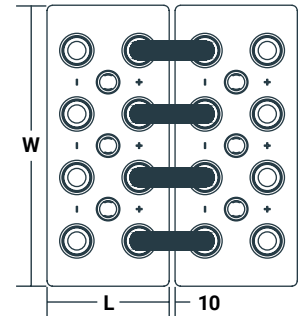
STT2V100 to
STT2V600



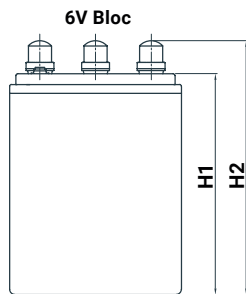
STT2V800 to
STT2V1500



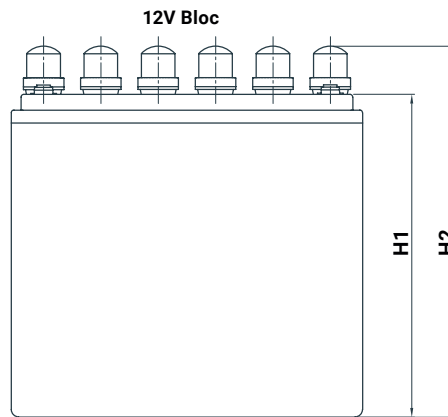
STT2V1750 to
STT2V2000



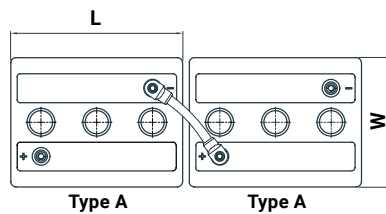
STT2V2500 to
STT2V3000



6V Bloc

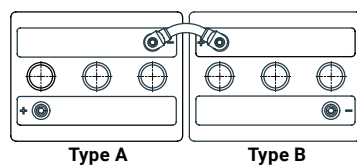


12V Bloc



Type A

Type A



Type A

Type B

