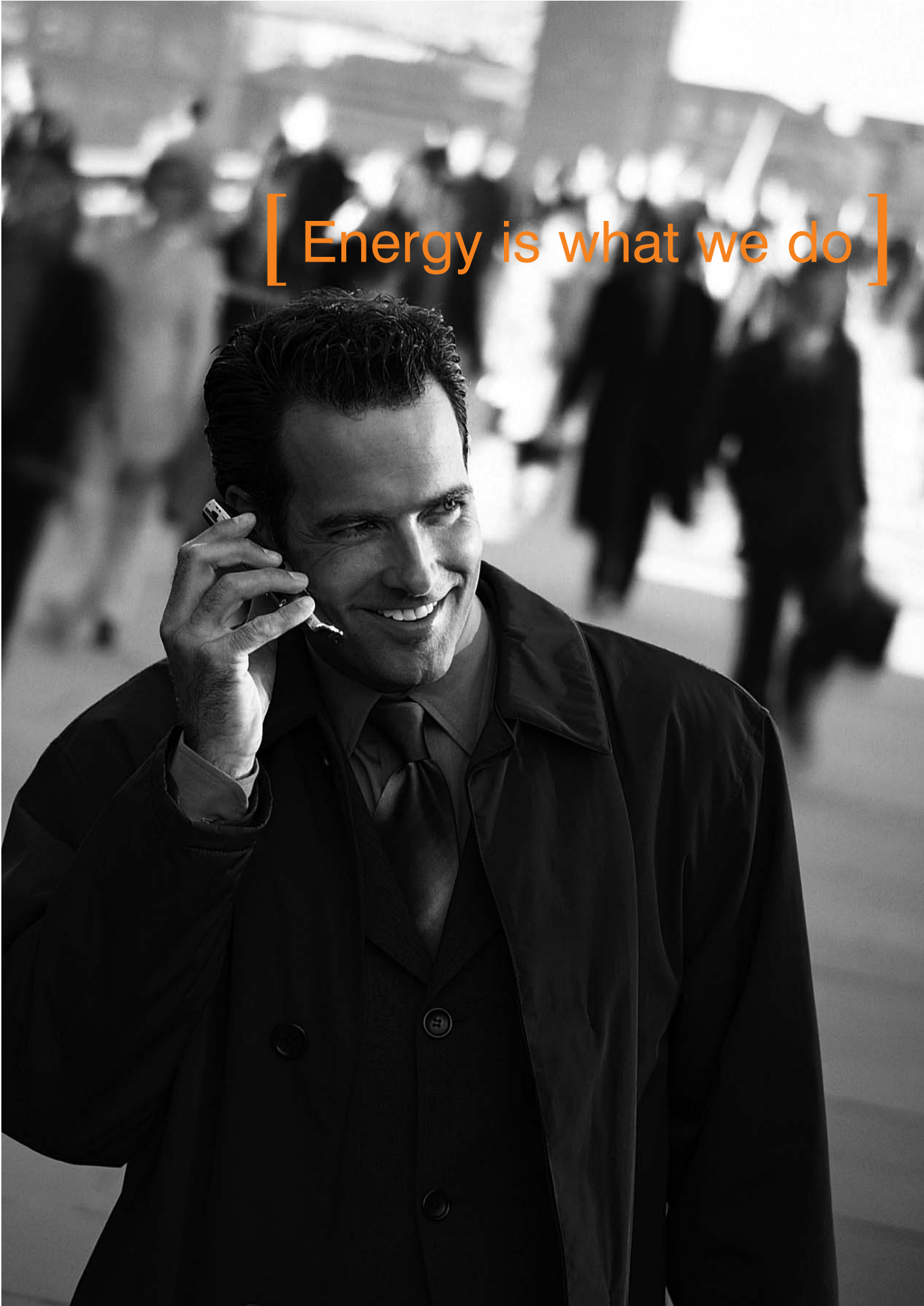




SVT AGM VRLA batteries

 **SUNLIGHT**
creating energy



[Energy is what we do]

SVT batteries introduction

Product Information

The SVT range of SUNLIGHT Valve Regulated Lead Acid batteries has been designed as an advanced series, in order to provide solution in a wide range of capacity requirements.

The Valve Regulated Lead Acid (VRLA) battery is a rechargeable battery type with a safety valve, which allows the internal pressure to be released in case of overcharge. This battery type is maintenance free as there is no need for topping-up water or electrolyte during the entire service life.

The SUNLIGHT SVT range of VRLA batteries features models with a capacity range from 150 up to 3850Ah. They have been designed with long service life, excellent performance and high reliability. The expanded range makes SVT batteries an ideal choice for versatile standby applications, providing also solutions for large capacity requirements.

Features of the SVT range

- Capacity Range: 150Ah to 3850Ah
- Design Life: 12+ years at 20°C
- Classified as: Long Life, according to EUROBAT guide 1999
- Configurations: 2V cells
- Connectors: Metal bar connectors provided as standard (for models >200Ah)

Quality and Standards

- The SUNLIGHT SVT batteries comply with the international standards IEC 60896 Part 21/22 and BS6290 Part 4.
- The SUNLIGHT Manufacturing Plant is certified according to ISO 9001:2000 and ISO 14001:2004.
- As a member of EUROBAT organization SUNLIGHT closely monitors the latest developments in the battery industry.
- Products are 100% tested and checked prior to shipment.
- SUNLIGHT SVT batteries are completely recyclable.



SVT batteries technical features & applications

Technical Features

High Performance

With low internal resistance and efficient discharge characteristics, SUNLIGHT SVT batteries ensure superior performance.

Maintenance free

During the service life, there is no need to check the level of the electrolyte or to add water. The gases produced during electrolysis are almost completely recombined to water (up to 99%) through an effective reaction between hydrogen and oxygen.

Safety Valve design

Excessive gas produced by overcharge or an incorrect charging method is released through the safety valve, which detects rising internal pressure and allows gas to exit; then automatically reseals.

Separator Technology

The Absorbent Glass Mat (AGM) separator, used in SUNLIGHT batteries, is a highly porous material, which achieves maximization of oxygen diffusion and facilitates the reaction of active materials in the plates. The separator also maintains a constant distance between the positive and the negative plates and immobilizes the electrolyte, so that the possibility of acid leakage is minimized.

Performance on wide temperature range

SUNLIGHT SVT batteries operate within a wide range of temperature while the optimum temperature is 20°C ~ 25°C.

Low Self-discharge Rate

Using a lead / calcium grid alloy, the self-discharge is minimum. The battery can be stored for 9 months under normal conditions (20°C – 25°C) with no permanent effect on the capacity or the expected service life.

Leak and spill proof container

The construction of SUNLIGHT SVT battery guarantees that no electrolyte leakage can occur from the terminals or case. A highly resistant plastic material is used, available in either standard ABS (UL94 HB) or flame retardant type (according to UL94 V-0) on request.

Float service life

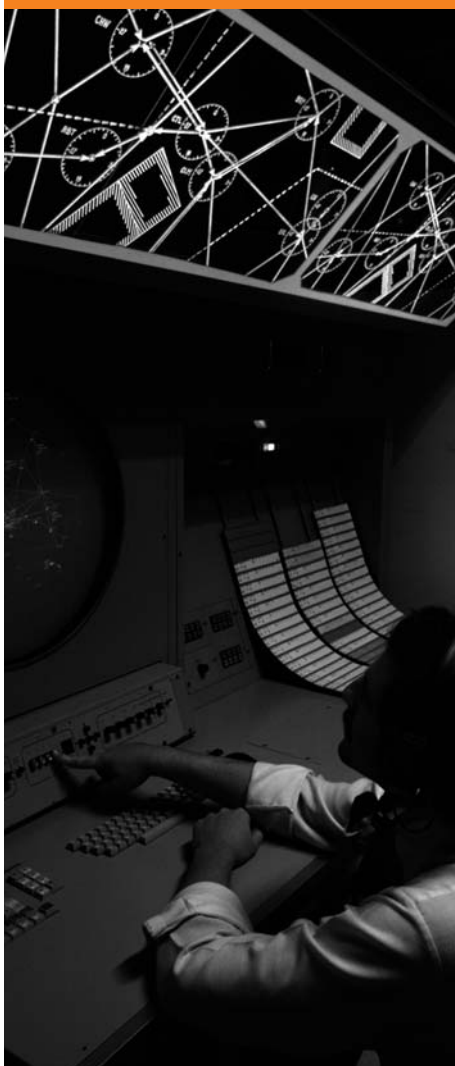
The expected service life is 12+ years in float/ standby applications (20°C).

Multi-position usage

The sealed construction of the battery allows perfect operation in any position for models up to 1250Ah capacity (vertical or horizontal but not completely inverted position). For models above 1500Ah capacity, the normal upright position is recommended.

Applications

- Emergency power supply in power generation/distribution sites and substations
- Telecommunications
- UPS systems
- Railroad signal and communication
- Electrical equipment
- Emergency lighting



SVT Series

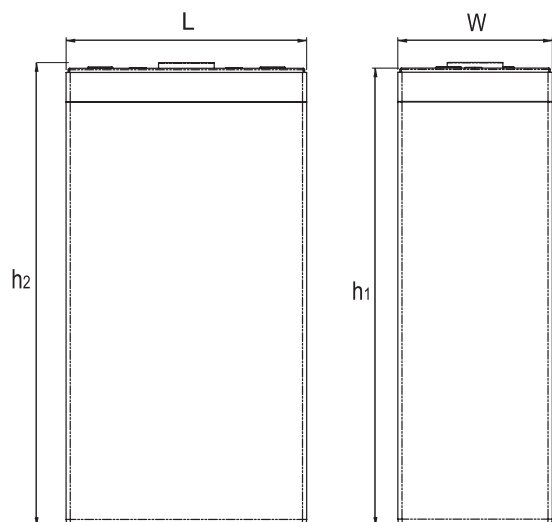
Battery Type		Nominal Voltage (V)	Nominal Capacity (Ah)	Dimensions (mm)					Typical Weight (kg)	Number of Terminals	Terminal Type	Internal Resistance (mΩ)	Maximum Charging Current (A)
			10h Rate at 1.80 Vpc	L	W	h1	h2	Overall H*					
at 20°C	SVT 150	2	150	172	102	205	210	---	8.1	2	M6	1.50	30
	SVT 200	2	200	173	111	329	334	365	13.7	2	M8	0.50	40
	SVT 250	2	250	173	111	329	334	365	16.0	2	M8	0.45	50
	SVT 300	2	300	171	151	330	335	365	18.1	2	M8	0.40	60
	SVT 375	2	375	171	151	330	335	365	21.7	2	M8	0.39	75
	SVT 400	2	400	211	176	329	334	365	26.1	4	M8	0.36	80
	SVT 500	2	500	241	172	331	336	365	30.8	4	M8	0.30	100
	SVT 600	2	600	301	175	331	336	366	37.9	4	M8	0.28	120
	SVT 800	2	800	410	175	330	335	365	50.3	8	M8	0.20	160
	SVT 1000	2	1000	475	175	328	333	365	62.8	8	M8	0.16	200
	SVT 1250	2	1250	475	175	328	333	365	70.2	8	M8	0.13	250
	SVT 1500	2	1500	401	351	342	347	378	98.6	8	M8	0.11	300
	SVT 1875	2	1875	401	351	342	347	378	115.5	8	M8	0.10	375
	SVT 2000	2	2000	491	351	344	349	383	128.9	8	M8	0.09	400
	SVT 2500	2	2500	491	351	344	349	383	144.9	8	M8	0.08	500
	SVT 3000	2	3000	712	351	341	346	382	194.8	8	M8	0.08	600
	SVT 3850	2	3850	712	351	341	346	382	245.3	8	M8	0.07	770

*Overall height includes the top covers, provided for batteries >200Ah

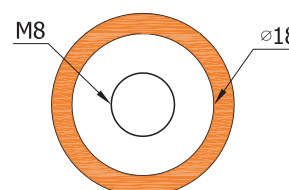
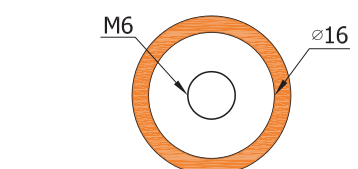
Terminal Torque Settings

M6 Terminal	6-8 Nm
M8 Terminal	8-12 Nm

Case Dimensions



Terminals

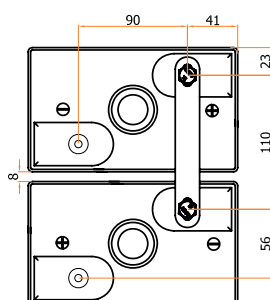


Connection Drawings

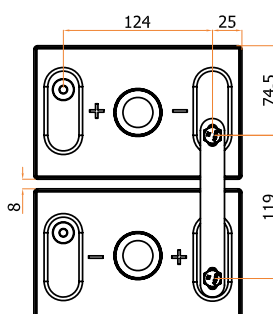
Dimensions in mm

SVT 150, 200, 250, 300, 375

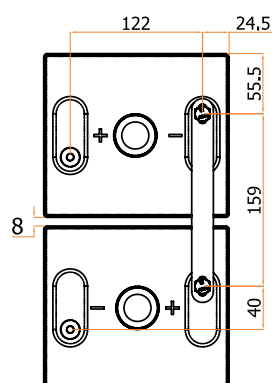
SVT 150



SVT 200
SVT 250

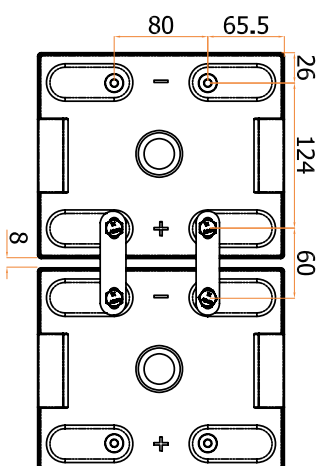


SVT 300
SVT 375

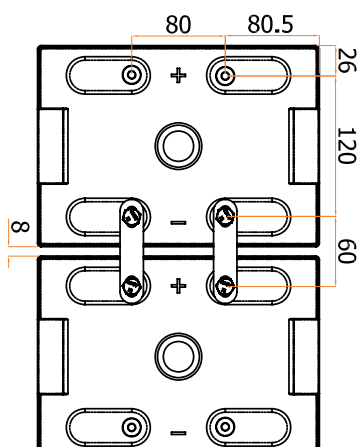


SVT 400, 500, 600

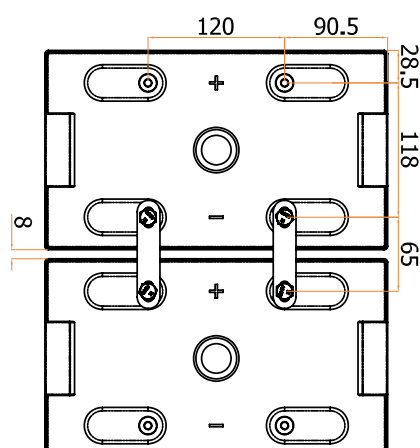
SVT 400



SVT 500

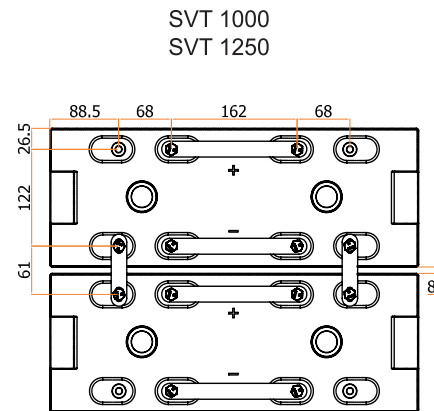
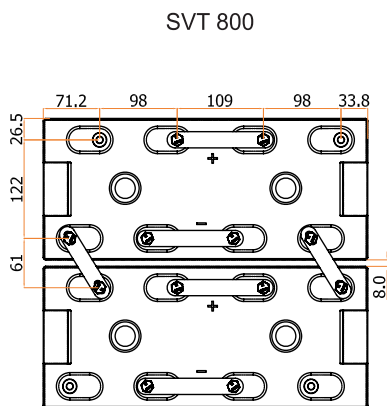


SVT 600

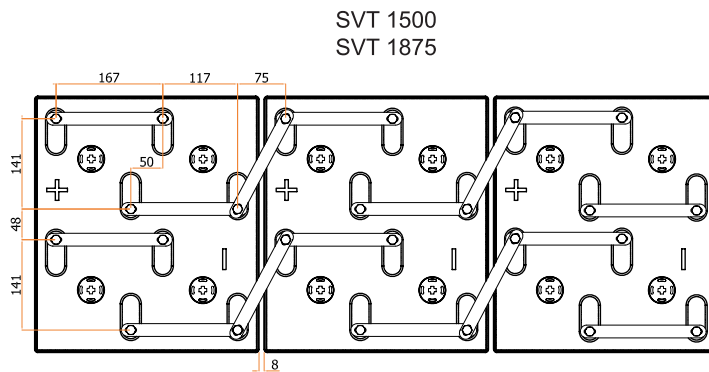


Dimensions in mm

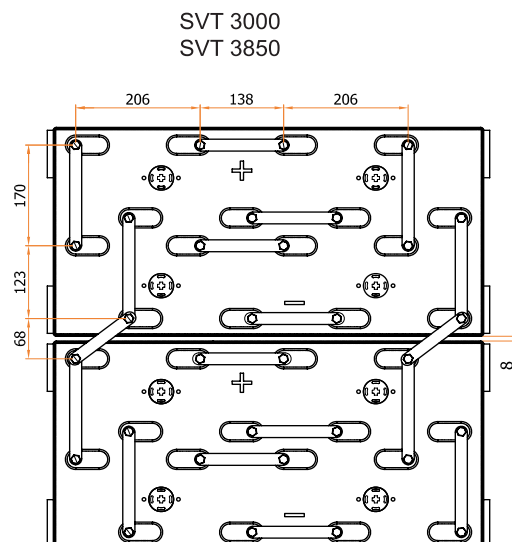
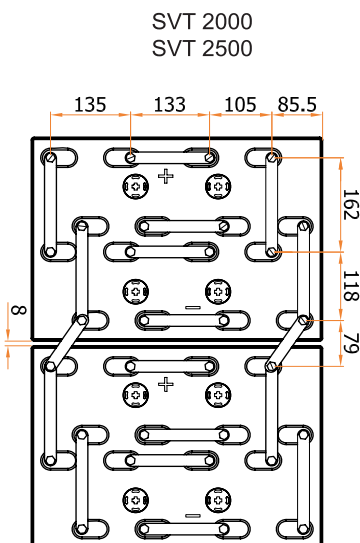
SVT 800, 1000, 1250



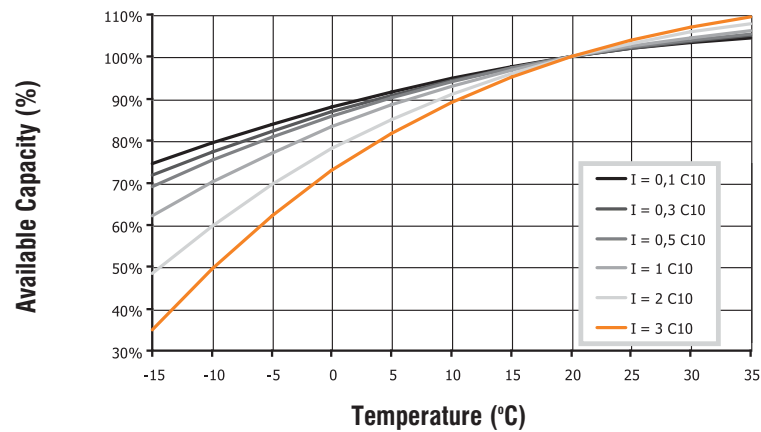
SVT 1500, 1875



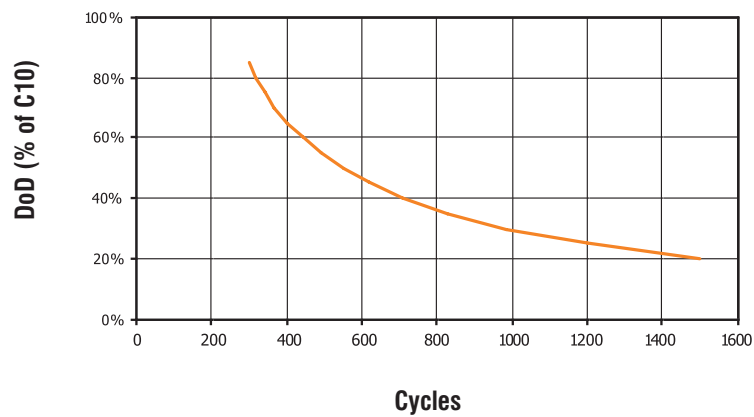
SVT 2000, 2500, 3000, 3850



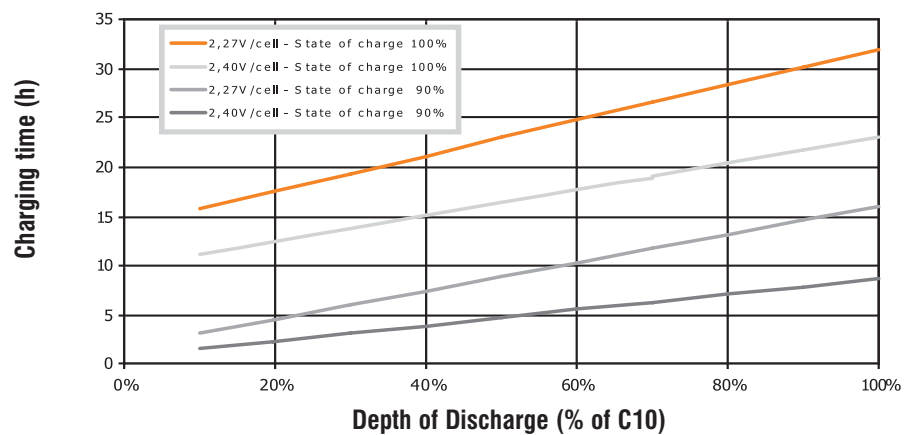
Available capacity vs. Temperature



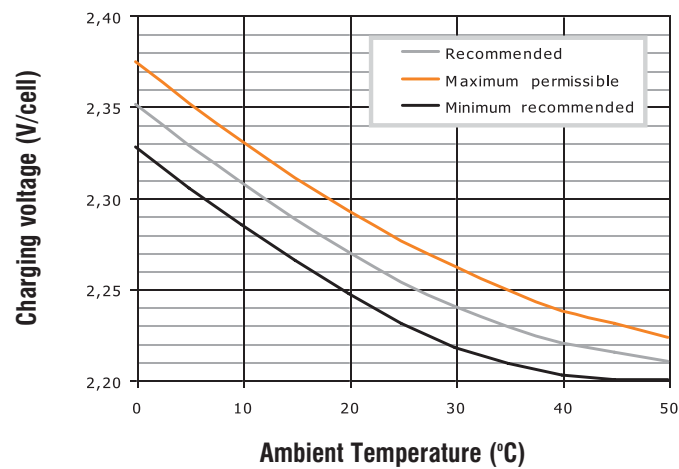
Cycle life vs. Depth of Discharge (DOD)



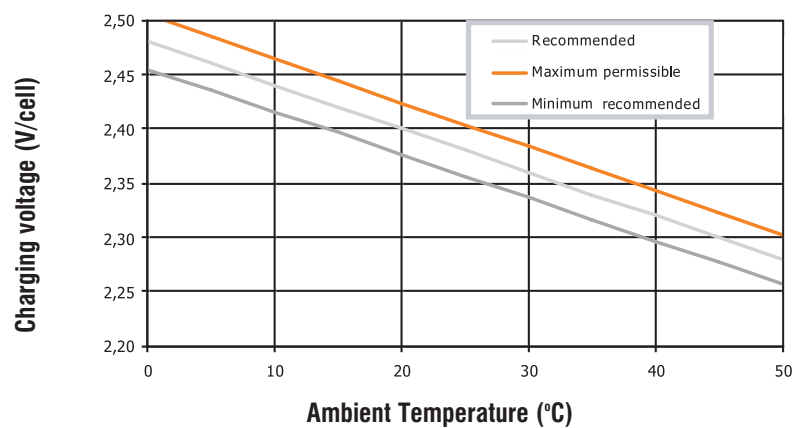
**Typical charging time vs. Depth of Discharge
(Initial charging current = $0,2 C_{10}$)**



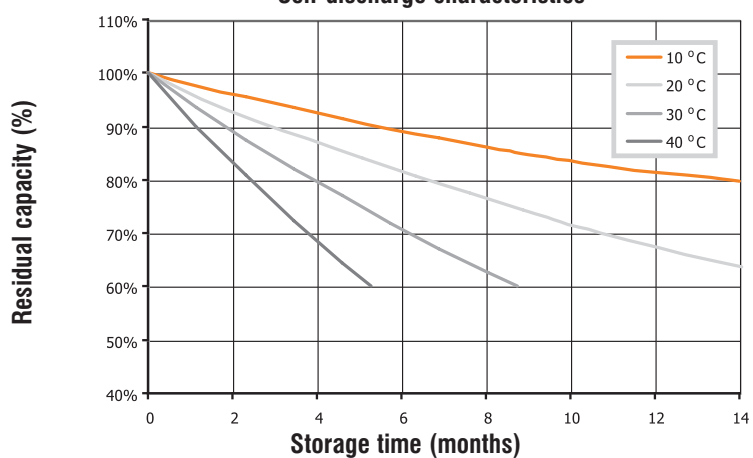
Charging voltage - Stand by use



Charging voltage - Cycle use



Self-discharge characteristics



Temperature Shelf Life

Temperature	Shelf Life
0 - 20 °C	12 months
21 - 30 °C	7 months
31 - 40 °C	4 months
41 - 50 °C	2,5 months

Discharge Table in Amperes

End voltage 1.85 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h	20 h
SVT 150	210.2	180.4	143.4	108.0	87.3	51.4	38.0	25.7	17.7	14.7	7.6
SVT 200	226.9	205.5	174.8	137.6	113.5	69.3	50.8	34.5	24.0	19.8	10.3
SVT 250	289.6	256.7	218.6	175.6	145.8	89.7	66.1	44.2	30.4	25.1	13.1
SVT 300	340.4	300.4	257.2	209.5	173.2	106.5	78.8	53.0	36.5	30.2	15.8
SVT 375	425.9	386.7	330.8	264.1	216.7	132.8	98.9	66.2	45.5	37.5	19.8
SVT 400	490.4	448.8	369.4	293.2	241.6	145.9	106.9	71.3	48.4	40.0	21.4
SVT 500	567.3	512.4	442.0	357.3	293.0	176.5	129.0	86.4	59.6	49.4	26.5
SVT 600	680.8	621.0	524.5	412.0	340.4	204.0	150.0	101.8	70.3	57.8	30.8
SVT 800	921.6	832.5	699.4	551.6	453.8	275.0	204.0	137.6	94.9	78.4	41.8
SVT 1000	1128.0	1029.0	870.0	692.0	567.3	339.0	247.3	166.0	114.6	94.3	50.1
SVT 1250	1372.0	1270.4	1091.8	866.7	709.6	424.0	312.3	209.0	143.7	118.0	62.2
SVT 1500	1701.9	1557.0	1310.4	1029.5	851.0	509.0	373.3	249.0	172.3	142.0	75.0
SVT 1875	2099.0	1897.2	1616.3	1269.5	1045.0	637.0	466.7	313.4	215.1	177.0	94.0
SVT 2000	2164.0	2007.9	1724.0	1386.7	1134.6	679.0	497.0	333.6	230.1	189.0	100.1
SVT 2500	2760.0	2520.0	2164.0	1715.9	1418.3	849.0	620.7	413.8	286.7	236.0	125.3
SVT 3000	3280.0	2994.6	2550.0	2059.0	1701.9	1019.0	743.0	498.4	344.7	284.3	151.0
SVT 3850	4260.0	3822.3	3268.0	2643.1	2184.6	1308.0	969.0	639.0	441.3	363.0	193.1

End voltage 1.80 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h	20 h
SVT 150	226.0	193.2	149.6	113.0	91.2	53.5	39.4	26.4	18.3	15.2	7.9
SVT 200	244.0	221.0	188.0	148.0	120.5	72.3	53.0	35.8	24.7	20.5	10.7
SVT 250	313.2	276.0	231.2	183.6	150.9	92.0	67.8	45.4	31.2	25.8	13.4
SVT 300	366.0	323.0	270.0	219.1	180.0	110.0	80.5	54.0	37.3	30.8	16.1
SVT 375	458.0	416.4	347.4	275.2	225.0	137.5	102.4	68.1	46.8	38.4	20.2
SVT 400	517.6	464.4	380.0	301.2	246.8	148.8	109.3	72.5	49.7	40.9	21.9
SVT 500	610.0	551.0	470.0	373.3	303.0	182.5	133.3	89.0	61.4	50.7	27.3
SVT 600	732.0	660.0	556.0	443.0	362.0	217.0	158.7	106.4	73.4	60.2	32.2
SVT 800	988.4	888.3	752.0	590.0	480.0	289.3	212.0	141.8	97.8	81.0	43.3
SVT 1000	1232.0	1116.0	932.0	741.3	605.0	360.5	264.0	176.8	121.8	100.3	53.3
SVT 1250	1528.0	1386.0	1156.0	916.0	747.0	450.9	331.0	221.4	152.8	125.5	66.2
SVT 1500	1864.0	1671.0	1392.0	1107.0	902.0	541.3	393.7	265.2	183.3	151.1	79.9
SVT 1875	2340.0	2097.0	1738.0	1358.7	1114.0	677.4	497.3	332.0	228.7	188.3	100.0
SVT 2000	2428.0	2193.0	1856.0	1476.0	1205.0	722.1	529.7	353.2	244.7	201.1	106.5
SVT 2500	3084.0	2760.0	2326.0	1845.0	1509.0	902.9	661.7	443.0	305.6	251.1	133.2
SVT 3000	3588.0	3220.0	2750.0	2214.0	1804.0	1083.7	795.0	530.8	366.5	301.1	160.7
SVT 3850	4697.0	4224.0	3562.0	2842.0	2324.0	1391.1	1025.0	680.0	468.8	386.2	205.5

Design and/or specifications are subject to change without prior notice. For clarifications and updated information, please contact your local SUNLIGHT sales representative.

Discharge Table in Amperes

End voltage 1.75 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h	20 h
SVT 150	236.8	201.9	156.8	118.1	94.8	55.3	40.5	27.3	18.8	15.5	8.1
SVT 200	277.0	240.0	196.0	154.3	125.0	74.7	54.7	36.8	25.4	20.9	10.9
SVT 250	326.0	286.8	238.6	188.7	153.9	94.1	69.1	46.4	31.7	26.2	13.7
SVT 300	385.6	337.5	283.4	226.1	185.7	112.9	82.7	55.1	38.1	31.5	16.4
SVT 375	498.4	438.6	363.0	284.7	232.2	139.5	104.0	69.3	47.4	39.2	20.6
SVT 400	553.0	483.0	393.4	308.1	251.3	151.1	111.4	74.0	50.6	41.7	22.3
SVT 500	668.0	591.0	492.0	385.3	312.0	188.2	137.7	92.2	63.1	52.3	28.0
SVT 600	820.0	726.0	598.0	466.7	382.0	225.8	164.7	110.6	76.3	62.7	33.6
SVT 800	1058.8	947.1	786.2	620.9	504.9	301.0	220.7	147.4	101.0	83.6	44.5
SVT 1000	1344.0	1185.0	982.0	776.0	631.0	375.2	275.0	184.2	126.8	104.4	55.5
SVT 1250	1668.0	1488.0	1228.0	968.0	789.0	469.3	347.5	231.2	159.0	130.6	68.9
SVT 1500	2008.0	1779.0	1476.0	1157.3	940.0	563.4	413.3	276.4	191.0	157.2	83.1
SVT 1875	2528.0	2244.0	1858.0	1446.7	1181.0	705.0	522.4	347.2	238.0	196.0	104.1
SVT 2000	2640.0	2358.0	1986.0	1554.7	1263.0	750.0	552.3	369.6	254.6	209.2	110.9
SVT 2500	3296.0	2952.0	2468.0	1957.0	1586.0	946.5	696.2	462.8	316.5	261.3	138.6
SVT 3000	3904.0	3498.0	2936.0	2348.0	1900.0	1127.8	831.7	554.2	380.6	313.3	167.3
SVT 3850	5064.0	4521.0	3764.0	3000.0	2438.0	1447.7	1066.7	707.6	488.8	401.9	213.8

End voltage 1.70 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h	20 h
SVT 150	246.8	208.7	162.2	120.5	96.9	56.5	41.5	27.9	19.1	15.7	8.2
SVT 200	282.5	244.8	204.0	159.2	128.7	76.2	55.6	37.2	25.7	21.3	11.1
SVT 250	339.2	294.9	244.0	192.3	156.6	95.3	70.0	47.0	32.1	26.5	13.9
SVT 300	404.8	350.1	290.0	230.9	189.3	114.0	83.6	55.9	38.6	31.9	16.6
SVT 375	529.4	460.0	371.6	291.4	237.1	141.3	105.5	70.5	48.0	39.5	21.0
SVT 400	576.0	502.5	406.0	313.1	255.0	153.5	113.0	75.2	51.4	42.6	22.8
SVT 500	706.9	620.2	508.0	394.7	319.0	190.5	139.3	93.4	63.9	52.8	28.3
SVT 600	864.6	755.3	618.0	482.7	391.0	230.3	168.7	112.6	77.8	63.9	34.2
SVT 800	1130.2	992.5	812.9	635.3	517.1	307.1	225.7	150.4	103.1	85.3	45.4
SVT 1000	1408.0	1233.0	1015.9	794.7	645.7	382.7	280.3	188.0	129.3	106.5	56.6
SVT 1250	1732.0	1530.0	1260.0	988.0	804.8	478.7	354.5	236.0	162.2	133.3	70.3
SVT 1500	2113.4	1856.4	1520.8	1186.7	958.8	574.6	425.6	283.2	195.0	160.4	84.5
SVT 1875	2646.9	2325.6	1905.4	1489.3	1212.8	719.1	531.7	354.8	242.7	199.9	106.2
SVT 2000	2764.0	2436.0	2032.9	1588.0	1288.3	766.5	567.8	377.4	259.7	213.4	113.1
SVT 2500	3476.0	3090.6	2539.8	1996.1	1617.7	963.5	710.1	471.2	323.0	266.5	141.4
SVT 3000	4164.0	3666.0	3048.8	2395.0	1938.0	1150.4	850.0	565.8	387.1	319.6	170.6
SVT 3850	5304.0	4701.0	3911.7	3074.3	2486.8	1476.6	1086.7	722.4	496.3	409.9	218.1

Design and/or specifications are subject to change without prior notice. For clarifications and updated information, please contact your local SUNLIGHT sales representative.

Discharge Table in Amperes

End voltage 1.65 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h
SVT 150	254.2	213.9	166.3	122.9	98.4	57.3	41.9
SVT 200	303.2	264.0	211.1	162.7	130.9	77.3	56.3
SVT 250	356.4	306.3	249.4	196.5	159.3	96.4	70.9
SVT 300	421.6	358.8	297.6	234.9	192.9	115.5	84.5
SVT 375	545.6	472.2	380.0	294.9	240.9	142.6	106.7
SVT 400	604.4	520.5	412.8	318.1	258.8	155.6	113.9
SVT 500	740.0	645.0	520.0	400.0	322.0	193.0	140.7
SVT 600	900.0	784.0	632.0	490.7	398.0	234.0	171.0
SVT 800	1172.4	1020.0	833.4	645.7	524.5	312.5	228.3
SVT 1000	1452.0	1257.0	1036.0	804.0	654.0	387.0	284.0
SVT 1250	1776.0	1566.0	1290.0	1009.3	820.0	484.0	358.0
SVT 1500	2184.0	1905.0	1545.0	1216.0	987.4	585.0	431.0
SVT 1875	2720.0	2382.0	1935.0	1512.0	1233.0	731.0	538.7
SVT 2000	2856.0	2502.0	2088.0	1612.0	1311.0	786.0	580.0
SVT 2500	3564.0	3160.0	2602.0	2037.3	1649.3	982.5	722.0
SVT 3000	4312.0	3777.0	3114.0	2454.1	1979.8	1170.0	861.7
SVT 3850	5544.0	4863.0	4000.0	3142.7	2540.8	1505.0	1103.3

Design and/or specifications are subject to change without prior notice. For clarifications and updated information, please contact your local SUNLIGHT sales representative.

Discharge Table in Watts/cell

End voltage 1.85 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
SVT 150	384.6	337.2	272.0	208.0	169.3	101.0	75.5	51.7	35.8	29.9
SVT 200	415.3	378.2	325.2	264.9	220.0	134.7	100.3	68.3	47.2	39.4
SVT 250	546.0	501.3	427.4	341.7	284.2	174.0	130.0	87.6	60.4	50.5
SVT 300	622.9	564.9	487.8	407.6	342.6	207.8	154.7	105.8	73.0	60.9
SVT 375	784.0	714.0	624.0	513.3	422.0	256.5	193.7	131.0	90.5	75.9
SVT 400	830.5	771.0	662.0	542.7	451.0	279.0	205.8	139.0	95.7	79.8
SVT 500	1038.2	942.9	822.0	666.7	551.0	339.0	251.7	171.4	117.9	98.2
SVT 600	1288.0	1140.0	984.0	802.7	663.0	398.5	294.3	199.4	137.6	115.1
SVT 800	1661.1	1524.0	1300.8	1052.0	878.0	532.0	396.9	269.3	183.4	153.6
SVT 1000	2076.3	1865.2	1612.0	1310.9	1086.4	655.3	487.7	331.0	226.5	188.0
SVT 1250	2532.0	2337.5	2030.8	1636.0	1354.0	819.6	608.7	411.7	284.1	235.3
SVT 1500	3064.0	2811.5	2430.0	1980.0	1629.6	983.9	727.6	494.0	341.8	283.1
SVT 1875	3841.2	3490.8	3006.4	2424.6	2010.7	1231.3	909.5	617.4	425.2	352.9
SVT 2000	3976.0	3694.5	3216.0	2621.8	2172.8	1309.0	968.7	657.2	452.9	376.9
SVT 2500	5076.0	4632.2	4063.3	3277.3	2715.9	1641.1	1209.7	815.2	565.0	470.6
SVT 3000	6000.0	5490.0	4840.0	3960.0	3259.1	1969.7	1448.1	981.8	676.6	564.3
SVT 3850	7840.0	7033.0	6160.0	5048.2	4183.5	2528.4	1870.0	1258.8	866.9	723.8

End voltage 1.80 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
SVT 150	413.6	357.0	285.0	215.8	177.1	105.0	78.4	53.1	36.8	30.6
SVT 200	446.5	406.6	349.7	281.1	230.8	140.9	104.0	70.6	48.7	40.6
SVT 250	588.4	529.2	446.0	353.4	292.0	178.0	132.3	89.4	61.6	51.4
SVT 300	669.8	613.2	524.5	422.1	354.0	213.9	158.7	108.0	74.5	62.0
SVT 375	838.1	745.2	654.7	529.3	432.0	263.0	198.3	134.4	92.5	77.4
SVT 400	893.0	822.0	699.4	563.5	463.0	285.2	211.2	142.2	98.0	81.6
SVT 500	1116.3	1013.8	874.2	702.7	578.0	349.5	260.7	176.8	121.5	100.9
SVT 600	1380.0	1227.0	1049.0	846.1	693.2	419.4	309.2	208.0	144.3	120.1
SVT 800	1786.1	1629.0	1398.7	1120.0	924.0	559.2	413.2	278.6	191.4	160.2
SVT 1000	2232.6	2005.6	1720.0	1409.6	1158.6	696.9	514.5	349.0	240.8	200.0
SVT 1250	2848.0	2556.0	2160.0	1737.3	1430.5	871.6	645.1	436.2	301.0	250.3
SVT 1500	3396.0	3030.0	2596.0	2102.7	1727.3	1046.4	767.3	522.4	363.4	301.2
SVT 1875	4192.0	3795.0	3232.7	2607.2	2152.0	1303.0	965.7	650.1	451.4	375.5
SVT 2000	4465.2	4041.0	3466.0	2810.7	2307.6	1388.5	1032.3	695.8	481.6	400.9
SVT 2500	5581.5	4980.9	4369.1	3524.0	2868.7	1745.3	1289.6	872.7	605.0	500.6
SVT 3000	6640.0	5924.8	5200.0	4226.7	3454.7	2094.8	1549.5	1045.7	721.4	600.3
SVT 3850	8595.5	7772.2	6727.6	5428.2	4450.5	2688.9	1997.7	1339.6	921.6	770.0

Design and/or specifications are subject to change without prior notice. For clarifications and updated information, please contact your local SUNLIGHT sales representative.

Discharge Table in Watts/cell

End voltage 1.75 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
SVT 150	432.0	372.4	294.2	222.1	181.1	108.1	80.6	54.3	37.4	31.1
SVT 200	491.2	432.9	366.6	289.3	237.4	145.5	107.6	72.5	49.7	41.4
SVT 250	618.0	547.2	458.0	360.0	299.0	180.9	134.7	90.8	62.4	52.1
SVT 300	751.2	655.2	553.2	439.2	363.9	218.2	162.0	110.0	75.4	62.9
SVT 375	904.0	792.0	680.0	542.7	441.0	269.0	202.6	136.4	94.0	78.3
SVT 400	976.0	867.0	732.0	578.7	477.0	291.0	216.5	144.9	99.6	82.9
SVT 500	1220.0	1080.0	918.0	732.0	602.0	361.5	269.7	182.8	125.5	104.2
SVT 600	1492.0	1314.0	1106.3	874.2	725.0	436.4	321.3	216.4	149.3	124.9
SVT 800	1952.0	1752.0	1474.5	1170.7	960.0	579.0	430.3	291.6	199.2	166.7
SVT 1000	2400.0	2136.0	1800.0	1462.7	1212.2	725.3	538.6	363.7	250.6	208.2
SVT 1250	3032.0	2706.0	2280.0	1819.1	1496.0	907.1	677.3	455.5	312.3	260.5
SVT 1500	3624.0	3240.0	2718.0	2179.9	1800.1	1089.0	813.2	544.5	376.0	312.9
SVT 1875	4548.0	4053.0	3412.0	2728.6	2236.0	1360.5	1011.3	684.0	468.5	390.7
SVT 2000	4840.0	4347.0	3670.0	2933.3	2418.6	1445.0	1076.5	728.1	500.4	417.2
SVT 2500	5940.0	5349.0	4606.5	3685.3	3009.0	1816.4	1356.8	911.7	627.5	521.0
SVT 3000	7120.0	6390.0	5529.7	4413.3	3638.5	2180.1	1620.9	1091.8	750.0	624.7
SVT 3850	9200.0	8250.0	7040.0	5640.0	4668.8	2798.4	2078.9	1394.0	960.2	801.3

End voltage 1.70 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
SVT 150	446.8	382.2	300.0	226.8	184.5	110.9	82.0	55.4	38.0	31.6
SVT 200	511.4	445.5	375.0	294.0	240.8	147.1	109.2	73.8	50.4	42.0
SVT 250	638.8	562.5	466.0	365.6	302.2	183.5	136.4	92.2	62.9	52.6
SVT 300	789.2	677.0	566.1	444.1	368.6	220.4	164.4	111.6	76.4	63.5
SVT 375	958.2	837.2	703.9	552.0	450.0	273.5	205.6	138.0	95.0	79.1
SVT 400	1028.0	906.0	751.0	588.0	484.0	296.8	220.2	147.7	100.7	83.8
SVT 500	1279.4	1128.7	946.0	750.7	612.0	367.5	274.2	185.6	127.2	105.7
SVT 600	1564.9	1374.7	1143.3	906.7	740.0	445.2	328.7	221.8	152.7	127.4
SVT 800	2045.6	1806.3	1512.0	1196.0	979.0	588.0	437.3	297.0	202.0	169.3
SVT 1000	2508.0	2217.0	1848.0	1490.7	1236.4	739.8	549.3	370.4	255.6	212.3
SVT 1250	3136.0	2784.6	2320.0	1855.5	1520.0	925.3	690.9	462.6	316.5	263.6
SVT 1500	3825.3	3411.0	2813.5	2223.5	1836.1	1110.7	829.5	554.6	382.6	318.2
SVT 1875	4790.9	4232.6	3524.9	2800.0	2298.0	1390.1	1038.5	694.6	477.6	397.9
SVT 2000	5112.1	4529.6	3760.8	2985.3	2467.0	1471.5	1100.0	741.5	510.0	425.6
SVT 2500	6256.0	5568.0	4720.0	3773.3	3097.9	1852.7	1384.0	928.3	640.0	531.4
SVT 3000	7600.0	6660.0	5680.0	4520.0	3711.3	2223.7	1661.2	1114.6	764.9	637.2
SVT 3850	9680.0	8632.3	7236.6	5746.7	4762.1	2854.3	2120.0	1423.1	975.1	815.0

Design and/or specifications are subject to change without prior notice. For clarifications and updated information, please contact your local SUNLIGHT sales representative.

Discharge Table in Watts/cell

End voltage 1.65 V/cell at 20°C

Time	15 min	20 min	30 min	45 min	1 h	2 h	3 h
SVT 150	455.1	389.4	306.2	230.5	187.2	112.0	83.0
SVT 200	549.6	478.7	386.6	299.6	243.9	148.3	110.0
SVT 250	660.4	575.1	472.6	369.2	305.5	185.7	137.6
SVT 300	841.7	714.3	578.6	453.3	372.9	223.4	166.3
SVT 375	992.0	870.0	722.4	557.3	455.0	275.0	207.0
SVT 400	1088.0	954.0	769.0	598.7	491.0	299.5	222.7
SVT 500	1340.0	1182.0	974.0	765.3	623.0	372.0	277.0
SVT 600	1652.2	1415.1	1170.0	925.0	754.0	454.3	334.3
SVT 800	2160.0	1905.0	1552.0	1218.0	994.0	597.0	443.3
SVT 1000	2608.0	2280.0	1896.0	1522.7	1260.5	752.0	557.0
SVT 1250	3244.0	2865.0	2360.7	1878.7	1542.0	935.6	697.7
SVT 1500	3952.0	3474.0	2866.0	2278.5	1877.0	1132.5	841.7
SVT 1875	4928.0	4335.0	3592.0	2851.5	2340.0	1412.0	1052.0
SVT 2000	5272.0	4675.0	3830.0	3043.1	2506.0	1500.0	1120.3
SVT 2500	6444.0	5703.8	4786.0	3836.0	3150.2	1889.5	1407.2
SVT 3000	7880.0	6895.1	5840.0	4600.0	3781.5	2261.6	1679.4
SVT 3850	10120.0	8898.7	7380.0	5856.7	4853.0	2900.0	2146.7



www.sunlight.gr

SUNLIGHT MANUFACTURING PLANT

The SUNLIGHT Manufacturing Plant is headquartered in Northern Greece. Since 1991, there has been a systematic investment in the development of one of the most modern industrial units of Europe in accordance with the strictest international standards.

In a total area of 142,000 m², with indoor areas of more than 40,000 m², the SUNLIGHT Manufacturing Plant has six high-end production units that are recognized for their high specialization.

Aiming at the production of high added value and quality products, the production and assembly lines of the SUNLIGHT Industrial Unit are used for:

- Cylindrical Zinc-Chloride cells such as R6HD (AA), R14HD (C) and R20HD (D) sizes.
- Advanced Lead-Acid batteries for submarine propulsion.
- Silver-Zinc batteries for combat and exercise torpedoes.
- Stationary and traction Lead-Acid batteries (vented type).
- Sealed Lead-Acid Batteries (VRLA).
- Autonomous Photovoltaic Hybrid Power Supply Systems.
- Battery packs for military and commercial applications.
- Assembly of Power Supply Systems for telecommunication applications.
- Assembly of Uninterruptible Power Systems (UPS).
- Assembly of Industrial Rectifiers.
- Assembly of Generating Sets ranging from 5 to 3,000 KVA.

MANAGEMENT SYSTEMS for QUALITY, ENVIRONMENTAL CONTROL, OCCUPATIONAL HEALTH & SAFETY

The SUNLIGHT Manufacturing Plant has established and maintains management systems for Quality (ISO 9001), Environmental control (ISO 14001) and Occupational Health and Safety (OHSAS 18001).

comrade design



• SYSTEMS SUNLIGHT S.A. Headquarters

23rd Km. N.R. Athens - Lamia, 145 65 Ag. Stefanos - Attica, Greece
Tel.: +30 210 62 45 400, Fax: +30 210 62 45 409

• SYSTEMS SUNLIGHT S.A. Manufacturing Plant

Neo Olvio 67 200 Xanthi, Greece
Tel.: +30 25410 48100, Fax: +30 25410 95446

• SUNLIGHT INDUSTRIAL S.R.L. (Romania)

2-4, Brânduselor Street, Sector 3, Bucharest, Romania
Tel.: +40 21 3517777, Fax: +40 21 3617333

• SUNLIGHT INDUSTRIAL EOOD (Bulgaria)

P.O. 1715 "MIADOST" 4 - 1 Business Park, Sofia Str., Bldg.11A - Floor 4
Bulgaria Tel.: +359 2 8079 190, Fax: +359 2 8079 188

• SUNLIGHT POLSKA Sp. z o.o.

Szyszkowa 34 str., 02-285 Warsaw, Poland
Tel.: +48 22 5758227, Fax: +48 22 5758258

• SUNLIGHT UKRAINE S.R.L.

18/14 Hvoiki Str., block 25, office 401, Kiev- 04080 - Ukraine
Tel.: +380 44 463 5735, Fax: +380 44 463 5735

• SUNLIGHT INDUSTRIAL doo (Serbia)

Bulevar Vojvode Misica 37, II floor - 11000 Beograd-Serbia
Tel.: +381 11 3063 950, Fax: +381 11 3063 959

• SUNLIGHT SYSTEMS FRANCE S.R.L.

Hyde Park - Le Westminster, 12 Allée Rosa Luxembourg
95610 Eragny Sur Oise, France
Tel.: +33 1 344 01634, Fax: +33 1 344 01639

• SUNLIGHT GERMANY

Elbestrasse 10 (TechnoMarl), D-45768 Marl, Germany
Tel.: +49 2365 91 51 75, Fax: +49 2365 20 59 10

• SUNLIGHT SPAIN

Avenida Del Mediterraneo 9-2º D 28007 Madrid - Spain
Tel.: +34 91 43 43 890, Fax: +34 91 43 44 070

• SUNLIGHT MIDDLE EAST - AFRICA

15 El - Hassan Str. Dokki Giza, Egypt
Tel.: +20 2 33 800 59, Fax: +20 2 33 652 93

