

**CELLYTE 2TLAM Range**



## **STATIONARY MODULAR RACK BATTERIES AGM TECHNOLOGY**

**15 YEARS DESIGN LIFE IN FLOAT SERVICE**



**Sealed Valve Regulated  
Maintenance Free  
Lead Acid Batteries**

**CAPACITY 100 Ah. TO 3200 Ah.  
C/10 RATE TO 1.80 Vpc @ 20C  
or C/8 to 1.75 Vpc @ 25C**

**CADMIUM FREE**

**FULLY RECYCLABLE  
LEAD ACID BATTERIES**

**CONFORMS TO THE EUROPEAN  
E.C.1992 DIRECTIVE ON  
DANGEROUS SUBSTANCES**

**HORIZONTAL LAYOUT MINIMISES  
BATTERY FLOOR SPACE**

### **INNOVATIVE FEATURES**

- \* Valve regulated with Catalyst
- \* Fully tank formed plates
- \* Never requires watering
- \* Spill proof and leak proof
- \* Low gassing on float charge
- \* Explosion proof
- \* Operates at low internal pressure
- \* Increased safety
- \* For use in vertical or horizontal position
- \* Increased capacity in given area

### **APPLICATIONS**

- \* Telecommunications
- \* UPS
- \* Emergency Lighting
- \* Standby Power
- \* Switchgear
- \* Control System
- \* Cellular Radio
- \* Navigation Aids
- \* Photovoltaic / Solar



**Supplied Worldwide by:**  
**SEC Industrial Battery Co.**  
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## CELLYTE 2TLAM -Modular/Tubular - Ampere Hour Data to 1.80 vpc @ 20 C.

SEC Battery TYPE	END Volts / Cell	DATA AMPS @ 20 C						END Volts / Cell	DISCHARGE DATA AMPS HOURS TO 1.80 vpc @ 20 C											
		DISCHARGE TIME IN MINUTES							DISCHARGE TIME IN HOURS											
		5	10	15	20	30	45		1	1.5	2	3	4	5	6	8	10	12	24	
2TLAM100	1.75	171	145	128	114	92.3	73.5	1.80	57.0	63.0	68.0	76.0	82.0	86.0	89.0	98.0	100	102	109	
2TLAM150	1.75	257	218	192	171	139	110	1.80	85.5	94.5	102	114	123	129	134	147	150	153	164	
2TLAM200	1.75	342	291	257	228	185	147	1.80	114	126	136	152	164	172	178	196	200	204	218	
2TLAM250	1.75	428	363	321	285	231	184	1.80	143	158	170	190	205	215	223	245	250	255	273	
2TLAM300	1.75	513	436	385	342	277	221	1.80	171	189	204	228	246	258	267	294	300	306	327	
2TLAM350*	1.75	599	509	449	399	323	257	1.80	200	221	238	266	287	301	312	343	350	357	382	
2TLAM400*	1.75	684	581	513	456	369	294	1.80	228	252	272	304	328	344	356	392	400	408	436	
2TLAM420*	1.75	718	610	539	479	388	309	1.80	239	265	286	319	344	361	374	412	420	428	458	
2TLAM450*	1.75	770	654	577	513	416	331	1.80	257	284	306	342	369	387	401	441	450	459	491	
2TLAM500*	1.75	855	727	641	570	462	368	1.80	285	315	340	380	410	430	445	490	500	510	545	
2TLAM550*	1.75	941	799	705	627	508	404	1.80	314	347	374	418	451	473	490	539	550	561	600	
2TLAM600*	1.75	1026	872	770	684	554	441	1.80	342	378	408	456	492	516	534	588	600	612	654	
2TLAM650*	1.75	1112	945	834	741	600	478	1.80	371	410	442	494	533	559	579	637	650	663	709	
2TLAM700*	1.75	1197	1017	898	798	646	515	1.80	399	441	476	532	574	602	623	686	700	714	763	
2TLAM750	1.75	1283	1090	962	855	693	551	1.80	428	473	510	570	615	645	668	735	750	765	818	
2TLAM800	1.75	1368	1163	1026	912	739	588	1.80	456	504	544	608	656	688	712	784	800	816	872	
2TLAM850	1.75	1454	1235	1090	969	785	625	1.80	485	536	578	646	697	731	757	833	850	867	927	
2TLAM900	1.75	1539	1308	1154	1026	831	662	1.80	513	567	612	684	738	774	801	882	900	918	981	
2TLAM1000	1.75	1710	1454	1283	1140	923	735	1.80	570	630	680	760	820	860	890	980	1000	1020	1090	
2TLAM1100	1.75	1881	1599	1411	1254	1016	809	1.80	627	693	748	836	902	946	979	1078	1100	1122	1199	
2TLAM1200	1.75	2052	1744	1539	1368	1108	882	1.80	684	756	816	912	984	1032	1068	1176	1200	1224	1308	
2TLAM1300	1.75	2223	1890	1667	1482	1200	956	1.80	741	819	884	988	1066	1118	1157	1274	1300	1326	1417	
2TLAM1400	1.75	2394	2035	1796	1596	1293	1029	1.80	798	882	952	1064	1148	1204	1246	1372	1400	1428	1526	
2TLAM1500	1.75	2565	2180	1924	1710	1385	1103	1.80	855	945	1020	1140	1230	1290	1335	1470	1500	1530	1635	
2TLAM1600	1.75	2736	2326	2052	1824	1477	1176	1.80	912	1008	1088	1216	1312	1376	1424	1568	1600	1632	1744	
2TLAM1700	1.75	2907	2471	2180	1938	1570	1250	1.80	969	1071	1156	1292	1394	1462	1513	1666	1700	1734	1853	
2TLAM1800	1.75	3078	2616	2309	2052	1662	1324	1.80	1026	1134	1224	1368	1476	1548	1602	1764	1800	1836	1962	
2TLAM2000	1.75	3420	2907	2565	2280	1847	1471	1.80	1140	1260	1360	1520	1640	1720	1780	1960	2000	2040	2180	
2TLAM2200	1.75	3762	3198	2822	2508	2031	1618	1.80	1254	1386	1496	1672	1804	1892	1958	2156	2200	2244	2398	
2TLAM2400	1.75	4104	3488	3078	2736	2216	1765	1.80	1368	1512	1632	1824	1968	2064	2136	2352	2400	2448	2616	
2TLAM2600	1.75	4446	3779	3335	2964	2401	1912	1.80	1482	1638	1768	1976	2132	2236	2314	2548	2600	2652	2834	
2TLAM2800	1.75	4788	4070	3591	3192	2586	2059	1.80	1596	1764	1904	2128	2296	2408	2492	2744	2800	2856	3052	
2TLAM3000	1.75	5130	4361	3848	3420	2770	2206	1.80	1710	1890	2040	2280	2460	2580	2670	2940	3000	3060	3270	
2TLAM3200	1.75	5472	4651	4104	3648	2955	2353	1.80	1824	2016	2176	2432	2624	2752	2848	3136	3200	3366	3597	

\*Cell types 350 to 700 also available as high discharge rate cells with 4 terminal posts

Actual discharge data may be +/- 5% of data shown - Largest single cells is 1600 ah

## CELLYTE 2TLGM Modular free standing 2 volt cells - Gel Technology - with Catalyst.

Valve Regulated Lead Acid (VRLA) low Maintenance Batteries - for Standby Applications.

These are free standing cells and can be supplied as cells only or with Modular zone 4 racks or in vertical or horizontal conventional zone 0 Tubular racks.

### “SEC-CAT” Catvent™ - Catalyst Vent Plug

SEC's VRLA cells incorporate the Philadelphia Scientific Precious Metal Catalyst Catvent™

to stabilise the negative plate, enhance the water recombination process within the cell, reduce cell dry out, reduces float current by up to 50%, positive plate corrosion, thermal runaway, and capacity loss due to negative plate polarisation.

This makes the **CELLYTE 2TLGM** battery ideally suited for Telecom, UPS, Photovoltaic, Wind power, and other Float & Shallow Cyclic applications. Manufactured to Quality system certified to ISO 9001

### Applicable Standards

IEC 60896-21/22-2004

BS 6290 Part 4

Eurobat

UL Component approval

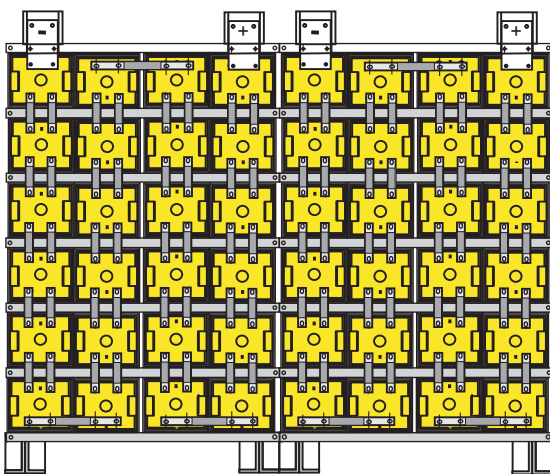
# CELLYTE 2TLAM - Modular/Tubular Dimensions, Weights & Data

SEC Battery TYPE	Capacity C/10 1.80 vpc	Single Cell Sizes	CELL DIMENSIONS & WEIGHT					24 CELL BATTERY DIMENSIONS mm				Internal Resist. m Ohms	1 Minute Rate to 1.67 vpc	Short Circuit Current	No. of Terminal Post
			Length mm	Width mm	Height mm H1	Height mm H2	CELL KG	Length Mod./Tub.	Depth Mod.&Tub.	Height Mod.&Tub.	Weight Mod./Tub.				
2TLAM100	100	1 x 100	102	187	278	300	7.0	672 / 720	310	1010	202/188	0.70	216	1080	2
2TLAM150	150	1 x 150	102	187	278	300	9.0	672 / 720	310	1010	288/270	0.60	300	1500	2
2TLAM200	200	1 x 200	102	187	278	300	13.6	672 / 720	310	1010	430/400	0.50	340	1600	2
2TLAM250	250	1 x 250	102	187	278	300	15.2	672 / 720	410	1010	490/460	0.45	380	1900	2
2TLAM300	300	1 x 300	102	187	374	396	18.8	672 / 720	410	1010	605/565	0.40	480	2400	2
2TLAM350*	350	1 x 350	151	187	374	396	25.0	966 / 1010	410	1010	720/670	0.39	580	2900	2
2TLAM400*	400	1 x 400	151	187	374	396	28.0	966 / 1010	410	1010	810/750	0.36	640	3200	2
2TLAM420*	420	1 x 420	151	187	374	396	28.0	966 / 1010	410	1010	810/750	0.35	660	3300	2
2TLAM450*	450	1 x 450	151	187	374	396	32.0	966 / 1010	410	1010	920/860	0.33	720	3600	2
2TLAM500*	500	1 x 500	151	187	543	565	28.5	966 / 1010	410	1010	980/910	0.30	800	4000	2
2TLAM550*	550	1 x 550	151	187	543	565	36.0	966 / 1010	580	1010	1040/970	0.29	900	4500	2
2TLAM600*	600	1 x 600	151	187	543	565	38.0	966 / 1010	580	1010	1100/1000	0.28	970	4800	2
2TLAM650*	650	1 x 650	151	187	543	565	41.0	966 / 1010	580	1010	1180/1080	0.24	1030	5100	2
2TLAM700*	700	1 x 700	151	187	543	565	45.0	966 / 1010	580	1010	1300/1190	0.23	1120	5600	2
2TLAM750	750	1 x 750	223	187	543	565	45.0	966 / 1010	580	1010	1390/1270	0.22	1200	6000	4
2TLAM800	800	1 x 800	223	187	543	565	58	958 / 980	580	1500	1670/1530	0.20	1280	6400	4
2TLAM850	850	1 x 850	223	187	543	565	61	958 / 980	580	1500	1750/1600	0.190	1380	6900	4
2TLAM900	900	1 x 900	223	187	543	565	65	958 / 980	580	1500	1870/1710	0.180	1460	7300	4
2TLAM1000	1000	1 x 1000	223	187	543	565	68	958 / 980	580	1500	1950/1800	0.160	1580	7900	4
2TLAM1100	1100	1 x 1100	223	187	543	565	74	958 / 980	580	1500	2130/1950	0.140	1720	8600	4
2TLAM1200	1200	1 x 1200	223	187	643	665	78	958 / 980	680	1500	2250/2060	0.130	1800	9000	4
2TLAM1300	1300	1 x 1300	223	187	643	665	82	958 / 980	680	1500	2360/2160	0.125	1900	9500	4
2TLAM1400	1400	1 x 1400	223	187	643	665	88	958 / 980	680	1500	2530/2320	0.120	2100	10500	4
2TLAM1500	1500	1 x 1500	235	212	653	675	100	1010 / 1030	690	1670	2770/2530	0.110	2380	12000	4
2TLAM1600	1600	1 x 1600	235	212	653	675	110	1010 / 1030	690	1670	3340/3060	0.100	2560	12800	4
2TLAM1700	1700	2 x 850	2 x 223	187	543	565	2 x 61	1916 / 1940	580	1500	3510/3220	0.095	2760	13800	8
2TLAM1800	1800	2 x 900	2 x 223	187	543	565	2 x 65	1916 / 1940	580	1500	3750/3430	0.090	2920	14600	8
2TLAM2000	2000	2 x 1000	2 x 223	187	543	565	2 x 68	1916 / 1940	580	1500	3920/3590	0.080	3160	15800	8
2TLAM2200	2200	2 x 1100	2 x 223	187	543	565	2 x 74	1916 / 1940	580	1500	4260/3900	0.070	3440	17200	8
2TLAM2400	2400	2 x 1200	2 x 223	187	643	665	2 x 78	1916 / 1940	680	1500	4490/4120	0.065	3600	18000	8
2TLAM2600	2600	2 x 1300	2 x 223	187	643	665	2 x 82	1916 / 1940	680	1500	4720/4330	0.080	3800	19000	8
2TLAM2800	2800	2 x 1400	2 x 223	187	643	665	2 x 88	1916 / 1940	680	1500	5070/4640	0.070	4200	21000	8
2TLAM3000	3000	2 x 1500	2 x 235	212	653	675	2 x 100	2220 / 2250	690	1670	5540/5060	0.067	4760	24000	8
2TLAM3200	3200	2 x 1600	2 x 235	212	653	675	2 x 110	2220 / 2250	690	1670	6680/6120	0.063	5120	25600	8

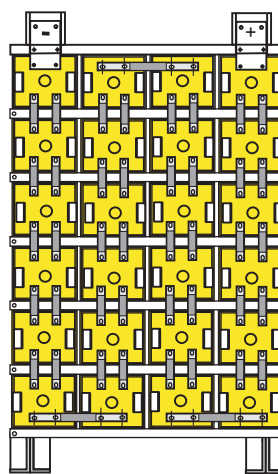
Actual discharge data may be +/- 5% of data shown - Largest single cell is 1600 ah

## Typical Modular Racks for 48 Volt Systems - Zone 4

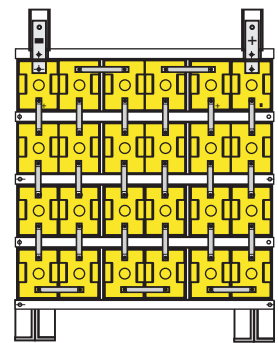
Note:- Cells up to 1600Ah. are single cells. Cells over 1600Ah. are made up of 2 x 850Ah. to 2 x 1600Ah. connected in parallel or series to give 1700Ah. to 3200Ah.



Front view  
24 x 2TLAM1500 to 2800  
(2 x 24 x 750 to 1400)  
2 x 4 post cells



Front view  
24 x 2TLAM750 to 1400  
4 post cells



Front view  
24 x 2TLAM100 to 700  
2 post cells

# CELLYTE 2TLAM - Modular/Tubular - Data Amps to 1.80 vpc @ 20 C.

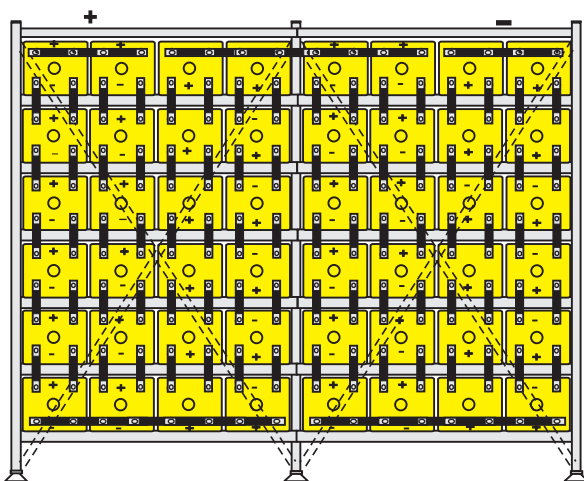
SEC Battery TYPE	END Volts / Cell	DATA AMPS @ 20 C						END Volts / Cell	DISCHARGE DATA AMPS TO 1.80 vpc @ 20 C										
		DISCHARGE TIME IN MINUTES							DISCHARGE TIME IN HOURS										
		5	10	15	20	30	45		1	1.5	2	3	4	5	6	8	10	12	24
2TLAM100	1.75	171	145	128	114	92.3	73.5	1.80	57.0	42.0	34.0	25.3	20.5	17.2	14.8	12.3	10.0	8.50	4.54
2TLAM150	1.75	257	218	192	171	139	110	1.80	85.5	63.0	51.0	38.0	30.8	25.8	22.3	18.4	15.0	12.8	6.81
2TLAM200	1.75	342	291	257	228	185	147	1.80	114	84.0	68.0	50.7	41.0	34.4	29.7	24.5	20.0	17.0	9.08
2TLAM250	1.75	428	363	321	285	231	184	1.80	143	105	85.0	63.3	51.3	43.0	37.1	30.6	25.0	21.3	11.4
2TLAM300	1.75	513	436	385	342	277	221	1.80	171	126	102	76.0	61.5	51.6	44.5	36.8	30.0	25.5	13.6
2TLAM350*	1.75	599	509	449	399	323	257	1.80	200	147	119	88.7	71.8	60.2	51.9	42.9	35.0	29.8	15.9
2TLAM400*	1.75	684	581	513	456	369	294	1.80	228	168	136	101	82.0	68.8	59.3	49.0	40.0	34.0	18.2
2TLAM420*	1.75	718	610	539	479	388	309	1.80	239	176	143	106	86.1	72.2	62.3	51.5	42.0	35.7	19.1
2TLAM450*	1.75	770	654	577	513	416	331	1.80	257	189	153	114	92.3	77.4	66.8	55.1	45.0	38.3	20.4
2TLAM500*	1.75	855	727	641	570	462	368	1.80	285	210	170	127	103	86.0	74.2	61.3	50.0	42.5	22.7
2TLAM550*	1.75	941	799	705	627	508	404	1.80	314	231	187	139	113	94.6	81.6	67.4	55.0	46.8	25.0
2TLAM600*	1.75	1026	872	770	684	554	441	1.80	342	252	204	152	123	103	89.0	73.5	60.0	51.0	27.3
2TLAM650*	1.75	1112	945	834	741	600	478	1.80	371	273	221	165	133	112	96.4	79.6	65.0	55.3	29.5
2TLAM700*	1.75	1197	1017	898	798	646	515	1.80	399	294	238	177	144	120	104	85.8	70.0	59.5	31.8
2TLAM750	1.75	1283	1090	962	855	693	551	1.80	428	315	255	190	154	129	111	91.9	75.0	63.8	34.1
2TLAM800	1.75	1368	1163	1026	912	739	588	1.80	456	336	272	203	164	138	119	98.0	80.0	68.0	36.3
2TLAM850	1.75	1454	1235	1090	969	785	625	1.80	485	357	289	215	174	146	126	104	85.0	72.3	38.6
2TLAM900	1.75	1539	1308	1154	1026	831	662	1.80	513	378	306	228	185	155	134	110	90.0	76.5	40.9
2TLAM1000	1.75	1710	1454	1283	1140	923	735	1.80	570	420	340	253	205	172	148	123	100	85.0	45.4
2TLAM1100	1.75	1881	1599	1411	1254	1016	809	1.80	627	462	374	279	226	189	163	135	110	93.5	50.0
2TLAM1200	1.75	2052	1744	1539	1368	1108	882	1.80	684	504	408	304	246	206	178	147	120	102	54.5
2TLAM1300	1.75	2223	1890	1667	1482	1200	956	1.80	741	546	442	329	267	224	193	159	130	111	59.0
2TLAM1400	1.75	2394	2035	1796	1596	1293	1029	1.80	798	588	476	355	287	241	208	172	140	119	63.6
2TLAM1500	1.75	2565	2180	1924	1710	1385	1103	1.80	855	630	510	380	308	258	223	184	150	128	68.1
2TLAM1600	1.75	2736	2326	2052	1824	1477	1176	1.80	912	672	544	405	328	275	237	196	160	136	72.7
2TLAM1700	1.75	2907	2471	2180	1938	1570	1250	1.80	969	714	578	431	349	292	252	208	170	145	77.2
2TLAM1800	1.75	3078	2616	2309	2052	1662	1324	1.80	1026	756	612	456	369	310	267	221	180	153	81.8
2TLAM2000	1.75	3420	2907	2565	2280	1847	1471	1.80	1140	840	680	507	410	344	297	245	200	170	90.8
2TLAM2200	1.75	3762	3198	2822	2508	2031	1618	1.80	1254	924	748	557	451	378	326	270	220	187	100
2TLAM2400	1.75	4104	3488	3078	2736	2216	1765	1.80	1368	1008	816	608	492	413	356	294	240	204	109
2TLAM2600	1.75	4446	3779	3335	2964	2401	1912	1.80	1482	1092	884	659	533	447	386	319	260	221	118
2TLAM2800	1.75	4788	4070	3591	3192	2586	2059	1.80	1596	1176	952	709	574	482	415	343	280	238	127
2TLAM3000	1.75	5130	4361	3848	3420	2770	2206	1.80	1710	1260	1020	760	615	516	445	368	300	255	136
2TLAM3200	1.75	5472	4651	4104	3648	2955	2353	1.80	1824	1344	1088	811	656	550	475	392	320	281	150

\*Cell types 350 to 700 also available as high discharge rate cells with 4 terminal posts

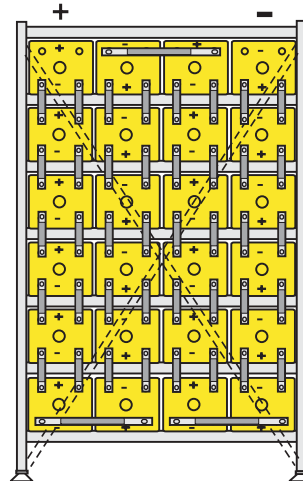
Actual discharge data may be +/- 5% of data shown - Largest single cells is 1600 ah

## Typical Tubular racks for 48Volt System - Zone 0

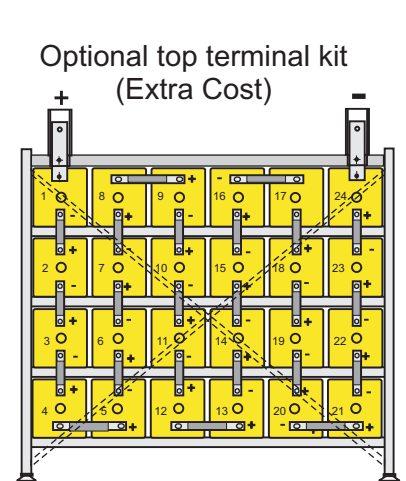
Note:- Cells up to 1600Ah. are single cells. Cells over 1600Ah. are made up of 2 x 850Ah. to 2 x1600Ah. connected in parallel or series to give 1700Ah. to 3200Ah.



Front view  
24 x 2TLAM1500 to 2800  
(2 x 24 x 750 to 1400)  
2 x 4 post cells



Front view  
24 x 2TLAM750 to 1400  
4 post cells



Front view  
24 x 2TLAM100 to 700  
2 post cells

Optional top terminal kit  
(Extra Cost)

## **CELLYTE 2TLAM - Modular/Tubular - Watts to 1.67 / 1.75 vpc @ 20 C.**

SEC Battery TYPE	END Volts / Cell	DISCHARGE Watts per Cell at 20 C						END Volts / Cell	DISCHARGE DATA Watts Per Cell AT 20 C									
		DISCHARGE TIME IN MINUTES							DISCHARGE TIME IN HOURS									
		5	10	15	20	30	45		1	1.5	2	3	4	5	6	8	10	
2TLAM100	1.67	355	302	268	238	194	150	1.75	115	83.5	67.2	50.1	40.6	34.2	29.6	24.6	20.1	
2TLAM150	1.67	532	453	403	356	291	224	1.75	172	125	101	75.2	60.8	51.3	44.4	36.9	30.2	
2TLAM200	1.67	710	604	537	475	388	299	1.75	230	167	134	100	81.1	68.4	59.1	49.2	40.2	
2TLAM250	1.67	887	755	671	594	485	374	1.75	287	209	168	125	101	85.5	73.9	61.5	50.3	
2TLAM300	1.67	1065	906	805	713	582	449	1.75	344	251	202	150	122	103	88.7	73.8	60.4	
2TLAM350*	1.67	1242	1057	939	831	679	523	1.75	402	292	235	175	142	120	103	86.2	70.4	
2TLAM400*	1.67	1419	1208	1073	950	776	598	1.75	459	334	269	200	162	137	118	98.5	80.5	
2TLAM420*	1.67	1490	1269	1127	998	815	628	1.75	482	351	282	210	170	144	124	103	84.5	
2TLAM450*	1.67	1597	1359	1208	1069	873	673	1.75	517	376	303	226	183	154	133	111	90.5	
2TLAM500*	1.67	1774	1510	1342	1188	970	748	1.75	574	418	336	251	203	171	148	123	101	
2TLAM550*	1.67	1952	1661	1476	1306	1067	822	1.75	631	459	370	276	223	188	163	135	111	
2TLAM600*	1.67	2129	1812	1610	1425	1164	897	1.75	689	501	403	301	243	205	177	148	121	
2TLAM650*	1.67	2307	1963	1744	1544	1261	972	1.75	746	543	437	326	264	222	192	160	131	
2TLAM700*	1.67	2484	2114	1879	1663	1358	1047	1.75	804	585	471	351	284	239	207	172	141	
2TLAM750	1.67	2661	2265	2013	1782	1455	1121	1.75	861	626	504	376	304	257	222	185	151	
2TLAM800	1.67	2839	2416	2147	1900	1552	1196	1.75	918	668	538	401	325	274	237	197	161	
2TLAM850	1.67	3016	2567	2281	2019	1649	1271	1.75	976	710	572	426	345	291	251	209	171	
2TLAM900	1.67	3194	2718	2415	2138	1746	1346	1.75	1033	752	605	451	365	308	266	222	181	
2TLAM1000	1.67	3549	3020	2684	2375	1940	1495	1.75	1148	835	672	501	406	342	296	246	201	
2TLAM1100	1.67	3903	3322	2952	2613	2134	1645	1.75	1263	919	740	551	446	376	325	271	221	
2TLAM1200	1.67	4258	3624	3220	2851	2328	1794	1.75	1378	1002	807	601	487	411	355	296	241	
2TLAM1300	1.67	4613	3926	3489	3088	2522	1944	1.75	1492	1086	874	652	527	445	384	320	262	
2TLAM1400	1.67	4968	4228	3757	3326	2716	2093	1.75	1607	1169	941	702	568	479	414	345	282	
2TLAM1500	1.67	5323	4531	4025	3563	2910	2243	1.75	1722	1253	1009	752	608	513	444	369	302	
2TLAM1600	1.67	5678	4833	4294	3801	3104	2392	1.75	1837	1336	1076	802	649	547	473	394	322	
2TLAM1700	1.67	6032	5135	4562	4038	3298	2542	1.75	1952	1420	1143	852	690	582	503	418	342	
2TLAM1800	1.67	6387	5437	4831	4276	3492	2691	1.75	2066	1503	1210	902	730	616	532	443	362	
2TLAM2000	1.67	7097	6041	5367	4751	3880	2990	1.75	2296	1670	1345	1002	811	684	591	492	402	
2TLAM2200	1.67	7807	6645	5904	5226	4268	3289	1.75	2526	1837	1479	1103	892	753	650	542	443	
2TLAM2400	1.67	8516	7249	6441	5701	4656	3588	1.75	2755	2004	1614	1203	974	821	710	591	483	
2TLAM2600	1.67	9226	7853	6978	6176	5044	3887	1.75	2985	2171	1748	1303	1055	889	769	640	523	
2TLAM2800	1.67	9936	8457	7514	6651	5433	4186	1.75	3214	2338	1883	1403	1136	958	828	690	563	
2TLAM3000	1.67	10646	9061	8051	7126	5821	4485	1.75	3444	2505	2017	1503	1217	1026	887	739	604	
2TLAM3200	1.67	11355	9665	8588	7601	6209	4784	1.75	3674	2672	2152	1604	1298	1095	946	788	644	

\*Cell types 350 to 700 also available as high discharge rate cells with 4 terminal posts

Actual discharge data may be +/- 5% of data shown - Largest single cells is 1600 ah

### **Features:**

The **CELLYTE** 2TLAM 'High Integrity' high density battery is supplied as a free standing 2 volt vertical or horizontal cell or in a modular or tubular steel racking system for minimum floor space, uniform cell cooling and extra long life. The Zone 4 modular battery rack design provides a stronger battery rack that is reduced in both height, width and weight. The Zone 0 tubular battery racks for areas not subject to earthquakes.

### **System Configuration:**

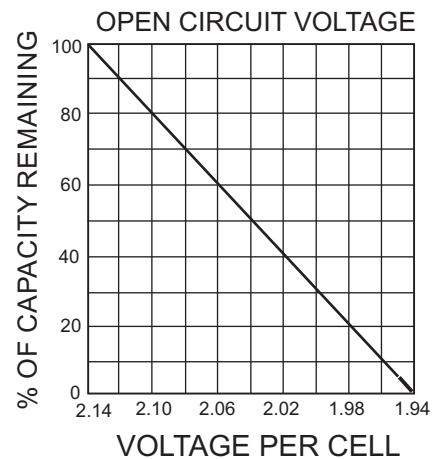
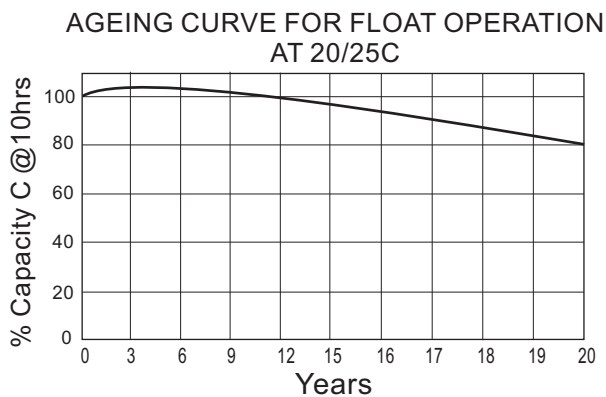
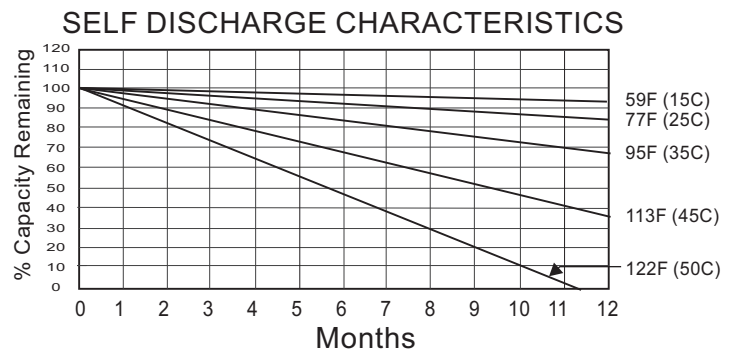
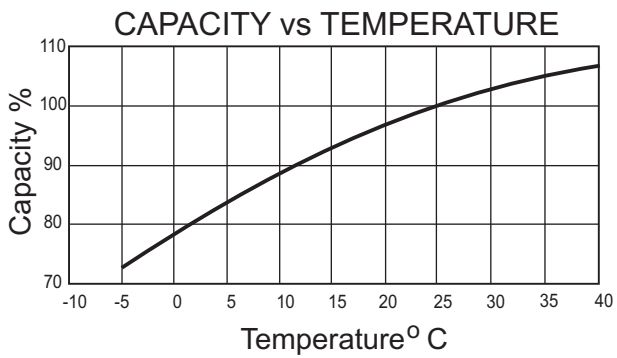
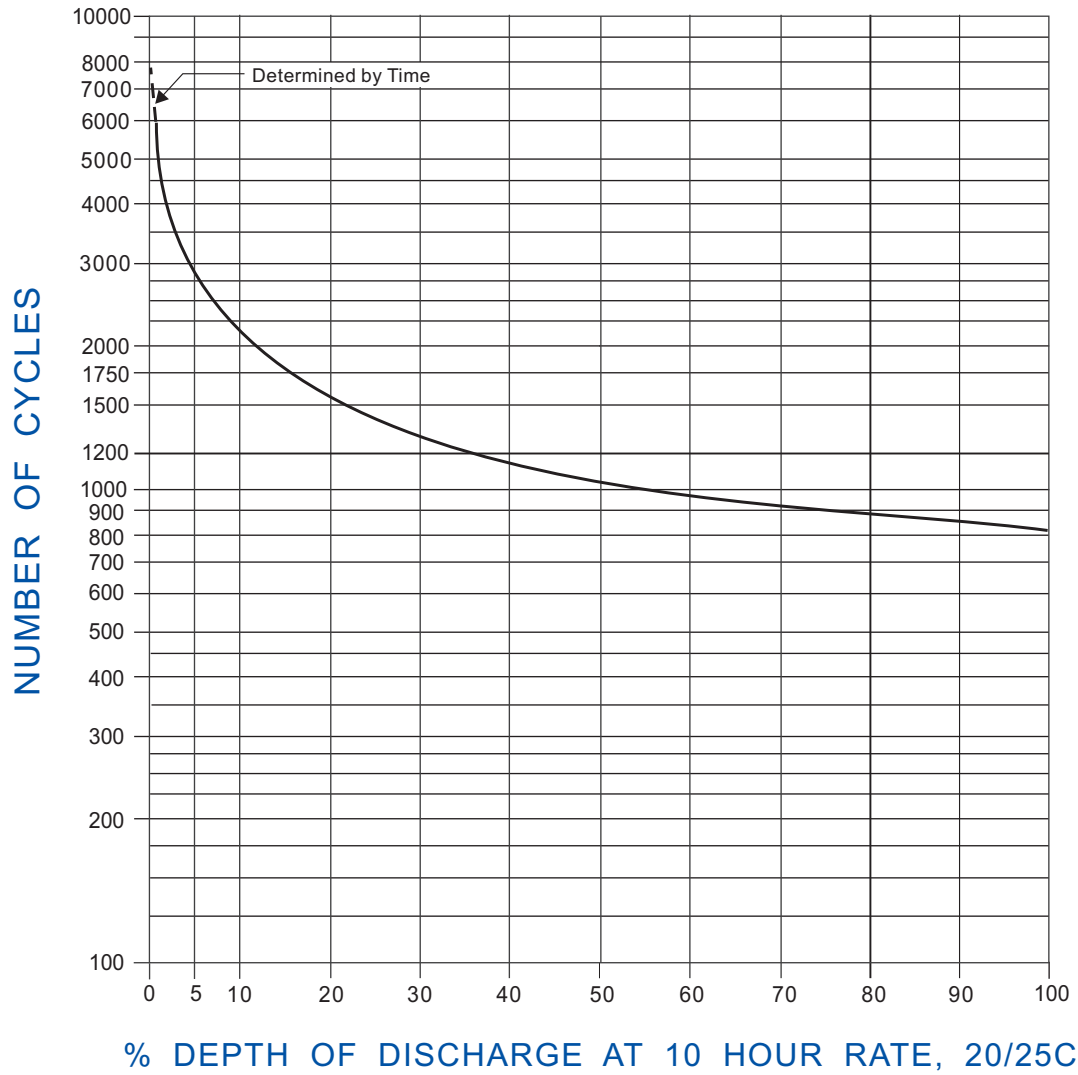
24 and 48 volts for Telecommunications

120, 240 and 480 volts for UPS, Power and Switchgear Control

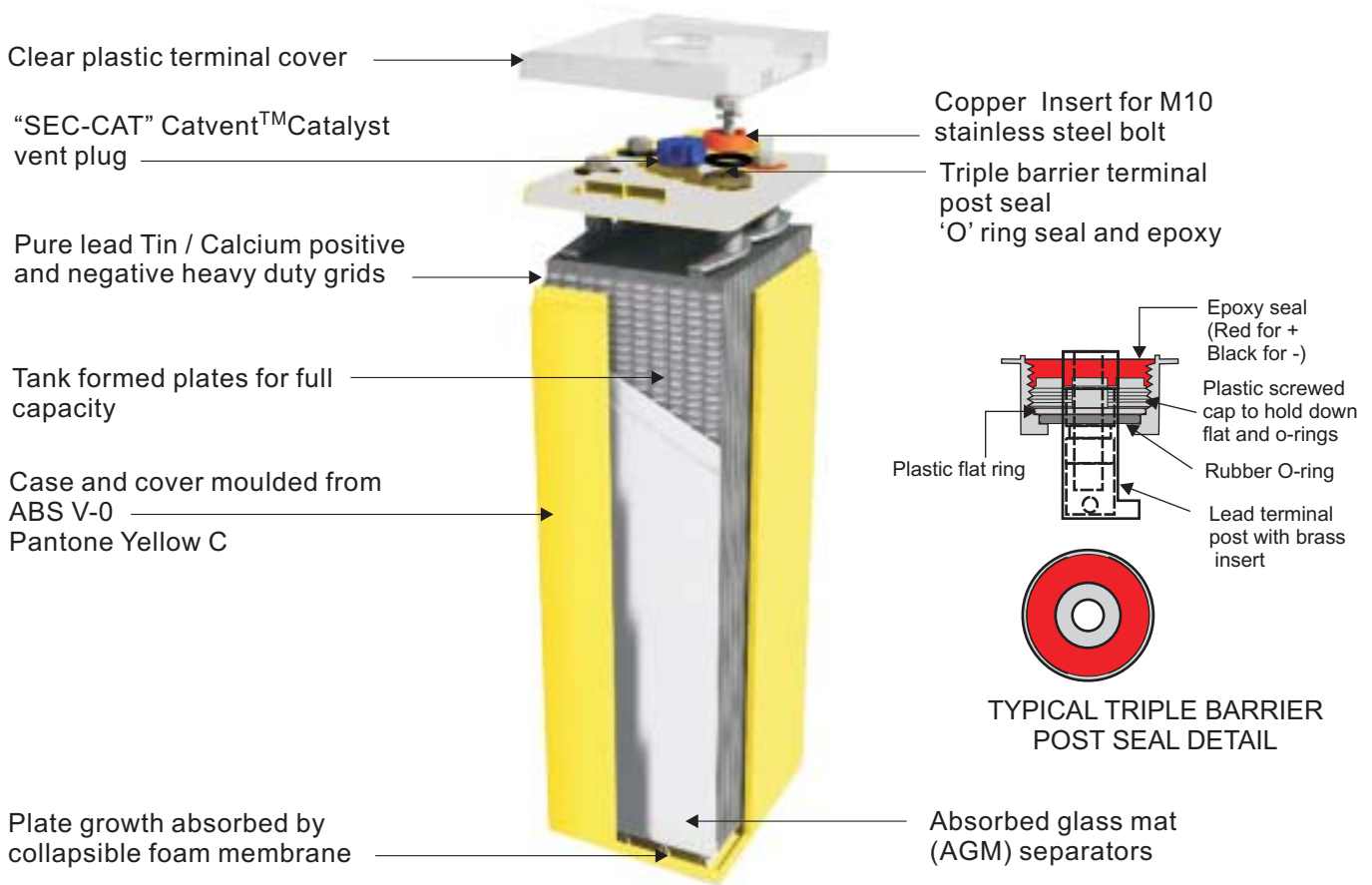
Zone 4 rated modules with horizontal cell layout provides smaller battery foot print

Zone 0 rated tubular racks with vertical or horizontal cell layout for minimum battery footprint.

SEC's **CELLYTE** 2TLAM batteries are manufactured using modern technology in a new joint venture battery manufacturing facility. SEC has been able to draw on a wealth of international experience and knowledge to produce high quality reliable lead acid batteries. The continuing installation of modern production equipment makes continuous product improvement possible.



# CELLYTE 2TLAM Cell - Cutaway View



**Heavy duty ABS cell jar can be free standing or in a zone 4 modular rack**

## Benefits of Catalyst in SEC VRLA Batteries

### Catalyst Reduces Float Current

One of the most immediate, observable effects of installing a catalyst in a VRLA cell is a sudden drop in the float current. Typically float currents are one half or less when a catalyst is installed. Adding a catalyst to the cell prevents some of the oxygen reaching the negative plate and allows the negative plate to stay polarised. This means that less current needs to be supplied to the cell from the charging system, manifesting itself as lower float current, leading to the following benefit :-

#### \* Minimize water loss

Gasses are recombined into water inside the cell rather than exiting the cell. Too much gas leaving the cell can lead to premature dry-out and cell failure. Cell dry is a major cause of VRLA cell failure

#### \* Increased life

There are many potential failure modes of VRLA cells. A number of these failure modes can be mitigated by the catalyst technology such as: Cell dry out, positive plate corrosion, thermal runaway, capacity loss due to negative plate depolarization

#### \* Minimize positive plate corrosion

A reduction in float current reduces the amount of over-charge on the positive plate which directly impacts the corrosion rate. The design life of a lead acid cell is based on the corrosion of the plate barring any other unforeseen failure modes.

#### \* Maintain cell capacity

Many VRLA cells in service are failing capacity tests because their negative plates are depolarized. In fact significant capacity increases have been seen on some cells just by installing a catalyst.



**CELLYTE 2CMT/G Modular**



**CELLYTE 2TLAM/G Tubular**



**CELLYTE 2CMT/G, 2TLAM/G with Catalyst**



**CELLYTE 12FTA/G Range**



**CELLYTE 6-12TLA Range**



**CELLYTE 6-12TUA Range**



**CELLYTE 6-12TLG Range**



**CELLYTE 6-12TSG Range**



**MICROLYTE +Plus Range**



**MICROLYTE Red Top Range**



**CELLYTE 2TLA/G Range**



**SEC 2ETG OPzV Range  
in Tubular Rack**



**SEC Tubular OPzS Range**



**SEC Nickel Cadmium Range**



**Typical VRLA Catalyst**

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