

CELLYTE VRLA BATTERY

CELLYTE 2TLGM RANGE STATIONARY MODULAR RACK BATTERIES Gel TECHNOLOGY

15 YEARS DESIGN LIFE IN FLOAT SERVICE



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

**CAPACITY 100 Ah. TO 3000 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

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



SCELLYTE 2TLGM Modular - 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	48	100	
2TLGM100	1.75	147	128	116	105	86.6	70.2	1.80	54.2	60.4	66.1	74.0	80.7	85.1	89.4	100	102	103	111	113	122	
2TLGM150	1.75	220	192	173	157	130	105	1.80	81.3	90.6	99.1	111	121	128	134	151	154	155	167	170	182	
2TLGM200	1.75	293	256	231	210	173	140	1.80	108	121	132	148	161	170	179	201	205	207	223	227	241	
2TLGM250	1.75	366	319	289	262	216	175	1.80	136	151	165	185	202	213	223	251	256	259	279	284	304	
2TLGM300	1.75	440	383	347	314	260	211	1.80	163	181	198	222	242	255	268	301	307	310	334	340	365	
2TLGM350	1.75	513	447	405	367	303	246	1.80	190	211	231	259	282	298	313	352	359	362	390	397	425	
2TLGM400	1.75	586	511	462	419	346	281	1.80	217	242	264	296	323	340	357	402	410	414	446	454	486	
2TLGM450	1.75	660	575	520	471	390	316	1.80	244	272	297	333	363	383	402	452	461	465	502	511	547	
2TLGM500	1.75	733	639	578	524	433	351	1.80	271	302	330	370	403	425	447	502	512	517	557	567	608	
2TLGM550	1.75	806	703	636	576	476	386	1.80	298	332	363	407	444	468	492	552	563	569	613	624	668	
2TLGM600	1.75	879	767	694	629	520	421	1.80	325	362	396	444	484	510	536	603	615	621	669	681	729	
2TLGM650	1.75	953	831	751	681	563	456	1.80	352	393	429	481	524	553	581	653	666	672	725	738	790	
2TLGM700	1.75	1026	894	809	733	606	491	1.80	380	423	462	518	565	595	626	703	717	724	780	794	851	
2TLGM750	1.75	1099	958	867	786	649	526	1.80	407	453	496	555	605	638	670	753	768	776	836	851	911	
2TLGM800	1.75	1172	1022	925	838	693	561	1.80	434	483	529	592	645	680	715	803	820	828	892	908	972	
2TLGM850	1.75	1246	1086	983	890	736	597	1.80	461	513	562	629	686	723	760	854	871	879	948	965	1033	
2TLGM900	1.75	1319	1150	1040	943	779	632	1.80	488	544	595	666	726	765	804	904	922	931	1003	1021	1094	
2TLGM1000	1.75	1466	1278	1156	1048	866	702	1.80	542	604	661	740	807	851	894	1004	1024	1034	1115	1135	1215	
2TLGM1100	1.75	1612	1405	1272	1152	953	772	1.80	596	664	727	814	887	936	983	1105	1127	1138	1226	1248	1337	
2TLGM1200	1.75	1759	1533	1387	1257	1039	842	1.80	651	725	793	888	968	1021	1072	1205	1229	1241	1338	1362	1458	
2TLGM1300	1.75	1905	1661	1503	1362	1126	912	1.80	705	785	859	962	1049	1106	1162	1306	1332	1345	1449	1475	1580	
2TLGM1400	1.75	2052	1789	1618	1467	1212	983	1.80	759	845	925	1036	1130	1191	1251	1406	1434	1448	1561	1589	1701	
2TLGM1500	1.75	2198	1917	1734	1571	1299	1053	1.80	813	906	991	1110	1210	1276	1341	1506	1537	1552	1672	1702	1823	
2TLGM1600	1.75	2345	2044	1850	1676	1385	1123	1.80	868	966	1057	1184	1291	1361	1430	1607	1639	1655	1784	1816	1944	
2TLGM1700	1.75	2492	2172	1965	1781	1472	1193	1.80	922	1027	1123	1258	1372	1446	1519	1707	1741	1759	1895	1929	2066	
2TLGM1800	1.75	2638	2300	2081	1886	1559	1263	1.80	976	1087	1189	1332	1452	1531	1609	1808	1844	1862	2007	2043	2187	
2TLGM2000	1.75	2931	2555	2312	2095	1732	1404	1.80	1085	1208	1321	1480	1614	1701	1787	2009	2049	2069	2230	2270	2430	
2TLGM2100	1.75	3078	2683	2428	2200	1818	1474	1.80	1139	1268	1387	1554	1694	1786	1877	2109	2151	2172	2341	2383	2552	
2TLGM2250	1.75	3298	2875	2601	2357	1948	1579	1.80	1220	1359	1487	1665	1815	1914	2011	2260	2305	2327	2508	2553	2734	
2TLGM2400	1.75	3517	3066	2775	2514	2078	1684	1.80	1301	1449	1586	1776	1936	2041	2145	2410	2459	2483	2675	2724	2916	
2TLGM2550	1.75	3737	3258	2948	2671	2208	1790	1.80	1383	1540	1685	1887	2057	2169	2279	2561	2612	2638	2843	2894	3099	
2TLGM2700	1.75	3957	3450	3121	2828	2338	1895	1.80	1464	1631	1784	1998	2178	2296	2413	2712	2766	2793	3010	3064	3281	
2TLGM3000	1.75	4397	3833	3468	3143	2598	2105	1.80	1627	1812	1982	2220	2420	2552	2681	3013	3073	3103	3344	3405	3646	

Actual discharge data may be +/- 5% of data shown - Single cells over 1400 Ah. not available until 2009

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 negativeplate 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

Visit our website on www.secbattery.com / www.solarenergycentre.com

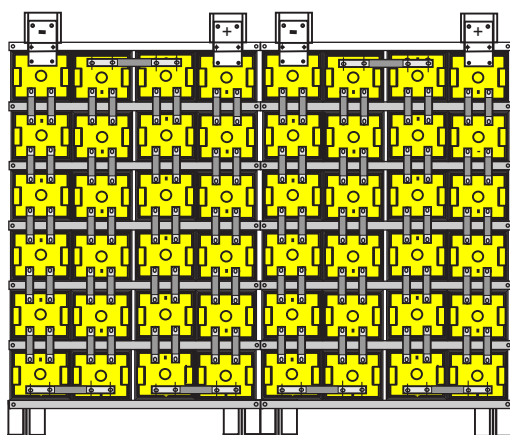
CELLYTE 2TLGM - Modular & Tubular Dims, Weights & Data

SEC Battery TYPE	Capacity C/10 1.80 vpc	CELL DIMENSIONS & WEIGHT					24 CELL BATTERY DIMENSIONS				Internal Resist. m Ohms	1 Minute Rate to 1.67 vpc	Short Circuit Current	No. of Terminal Post
		Length	Width	Height	Height	CELL	Length	Depth	Height	Weight				
		mm	mm	mm H1	mm H2	KG	Mod/Tub	mm	mm	Mod/Tub				
2TLGM100	100	102	187	278	300	7.0	672/720	310	1010	202/188	0.700	216	1080	2
2TLGM150	150	102	187	278	300	10	672/720	310	1010	288/270	0.600	300	1500	2
2TLGM200	200	102	187	278	300	15	672/720	310	1010	430/400	0.500	340	1600	2
2TLGM250	250	102	187	374	396	17	672/720	410	1010	490/460	0.450	380	1900	2
2TLGM300	300	102	187	374	396	21	672/720	410	1010	605/565	0.400	480	2400	2
2TLGM350	350	151	187	435	465	25	966/1010	480	1010	720/670	0.390	580	2900	2
2TLGM400	400	151	187	435	465	28	966/1010	480	1010	810/750	0.360	640	3200	2
2TLGM420	420	151	187	435	465	29	966/1010	480	1010	810/750	0.350	660	3300	2
2TLGM450	450	151	187	435	465	32	966/1010	480	1010	920/860	0.330	720	3600	2
2TLGM500	500	151	187	543	565	34	966/1010	580	1010	980/910	0.300	800	4000	2
2TLGM550	550	151	187	543	565	36	966/1010	580	1010	1040/970	0.290	900	4500	2
2TLGM600	600	151	187	543	565	38	966/1010	580	1010	1100/1000	0.280	970	4800	2
2TLGM650	650	151	187	543	565	41	966/1010	580	1010	1180/1080	0.240	1030	5100	2
2TLGM700	700	151	187	543	565	45	966/1010	580	1010	1300/1190	0.230	1120	5600	2
2TLGM750	750	223	187	543	565	48	958/980	580	1400	1390/1270	0.220	1200	6000	4
2TLGM800	800	223	187	543	565	58	958/980	580	1400	1670/1530	0.200	1280	6400	4
2TLGM850	850	223	187	543	565	61	958/980	580	1400	1750/1600	0.190	1380	6900	4
2TLGM900	900	223	187	543	565	65	958/980	580	1400	1870/1710	0.180	1460	7300	4
2TLGM1000	1000	223	187	543	565	68	958/980	580	1400	1950/1800	0.160	1580	7900	4
2TLGM1100	1100	2 x 151	187	543	565	2 x 36	1916/1940	580	1400	2130/1950	0.145	1800	9000	8
2TLGM1200	1200	2 x 151	187	643	565	2 x 38	1916/1940	580	1400	2250/2060	0.150	1940	9600	8
2TLGM1300	1300	2 x 151	187	643	565	2 x 41	1916/1940	580	1400	2360/2160	0.120	2060	10200	8
2TLGM1400	1400	2 x 151	187	643	565	2 x 45	1916/1940	580	1400	2530/2320	0.115	2240	11200	8
2TLGM1500	1500	2 x 223	187	643	565	2 x 48	1916/1940	580	1400	2770/2530	0.110	2400	12000	8
2TLGM1600	1600	2 x 223	187	543	565	2 x 58	1916/1940	580	1400	3340/3060	0.100	2560	12800	8
2TLGM1700	1700	2 x 223	187	543	565	2 x 61	1916/1940	580	1400	3510/3220	0.095	2760	13800	8
2TLGM1800	1800	2 x 223	187	543	565	2 x 65	1916/1940	580	1400	3750/3430	0.090	2920	14600	8
2TLGM2000	2000	2 x 223	187	543	565	2 x 68	1916/1940	580	1400	3920/3590	0.080	3160	15800	8
2TLGM2100	2100	3 x 151	187	543	565	3 x 45	2916/2940	580	1400	4260/3900	0.070	3360	16800	12
2TLGM2250	2250	3 x 223	187	543	565	3 x 48	2916/2940	580	1400	4490/4120	0.065	3600	18000	12
2TLGM2400	2400	3 x 223	187	543	565	3 x 58	2916/2940	580	1400	4720/4330	0.063	3840	19200	12
2TLGM2550	2550	3 x 223	187	543	565	3 x 61	2916/2940	580	1400	4720/4330	0.063	4140	20700	12
2TLGM2700	2700	3 x 223	187	543	565	3 x 65	2916/2940	580	1400	5070/4640	0.060	4380	21900	12
2TLGM3000	3000	3 x 223	187	543	565	3 x 68	2916/2940	580	1400	5530/5070	0.055	4740	23700	12

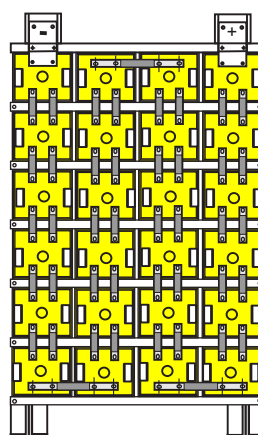
Actual discharge data may be +/- 5% of data shown - Single cells over 1400 ah not available until 2009

Typical Modular Zone 4 Racks for 48 Volt Systems

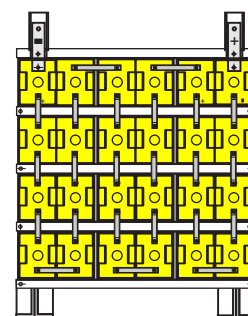
Note:- Cells 1500Ah. to 2800Ah. are currently made up of 2 x 750Ah.to 2 x1400Ah. and cell 3000Ah. made up of 3 x 1000Ah. connected in parallel or series



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

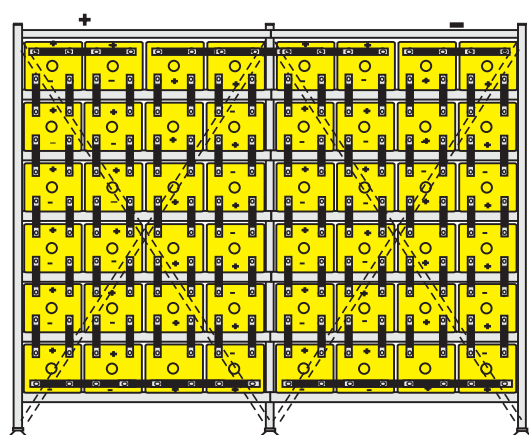
CELLYTE 2TLGM Modular - Amps Data TO 1.80 vpc @ 20 C.

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	48	100
2TLGM100	1.75	147	128	116	105	86.6	70.2	1.80	54.2	40.3	33.0	24.7	20.2	17.0	14.9	12.6	10.2	8.62	4.64	2.36	1.22
2TLGM150	1.75	220	192	173	157	130	105	1.80	81.3	60.4	49.6	37.0	30.3	25.5	22.3	18.8	15.4	12.9	6.97	3.55	1.82
2TLGM200	1.75	293	256	231	210	173	140	1.80	108	80.5	66.1	49.3	40.3	34.0	29.8	25.1	20.5	17.2	9.29	4.73	2.43
2TLGM250	1.75	366	319	289	262	216	175	1.80	136	101	82.6	61.7	50.4	42.5	37.2	31.4	25.6	21.6	11.6	5.91	3.04
2TLGM300	1.75	440	383	347	314	260	211	1.80	163	121	99.1	74.0	60.5	51.0	44.7	37.7	30.7	25.9	13.9	7.09	3.65
2TLGM350	1.75	513	447	405	367	303	246	1.80	190	141	116	86.3	70.6	59.5	52.1	43.9	35.9	30.2	16.3	8.27	4.25
2TLGM400	1.75	586	511	462	419	346	281	1.80	217	161	132	98.7	80.7	68.0	59.6	50.2	41.0	34.5	18.6	9.46	4.86
2TLGM450	1.75	660	575	520	471	390	316	1.80	244	181	149	111	90.8	76.5	67.0	56.5	46.1	38.8	20.9	10.6	5.47
2TLGM500	1.75	733	639	578	524	433	351	1.80	271	201	165	123	100.9	85.1	74.5	62.8	51.2	43.1	23.2	11.8	6.08
2TLGM550	1.75	806	703	636	576	476	386	1.80	298	221	182	136	111	93.6	81.9	69.0	56.3	47.4	25.5	13.0	6.68
2TLGM600	1.75	879	767	694	629	520	421	1.80	325	242	198	148	121	102	89.4	75.3	61.5	51.7	27.9	14.2	7.29
2TLGM650	1.75	953	831	751	681	563	456	1.80	352	262	215	160	131	111	96.8	81.6	66.6	56.0	30.2	15.4	7.90
2TLGM700	1.75	1026	894	809	733	606	491	1.80	380	282	231	173	141	119	104	87.9	71.7	60.3	32.5	16.5	8.51
2TLGM750	1.75	1099	958	867	786	649	526	1.80	407	302	248	185	151	128	112	94.2	76.8	64.7	34.8	17.7	9.11
2TLGM800	1.75	1172	1022	925	838	693	561	1.80	434	322	264	197	161	136	119	100.4	82.0	69.0	37.2	18.9	9.72
2TLGM850	1.75	1246	1086	983	890	736	597	1.80	461	342	281	210	171	145	127	107	87.1	73.3	39.5	20.1	10.3
2TLGM900	1.75	1319	1150	1040	943	779	632	1.80	488	362	297	222	182	153	134	113	92.2	77.6	41.8	21.3	10.9
2TLGM1000	1.75	1466	1278	1156	1048	866	702	1.80	542	403	330	247	202	170	149	126	102	86.2	46.4	23.6	12.2
2TLGM1100	1.75	1612	1405	1272	1152	953	772	1.80	596	443	363	271	222	187	164	138	113	94.8	51.1	26.0	13.4
2TLGM1200	1.75	1759	1533	1387	1257	1039	842	1.80	651	483	396	296	242	204	179	151	123	103	55.7	28.4	14.6
2TLGM1300	1.75	1905	1661	1503	1362	1126	912	1.80	705	523	429	321	262	221	194	163	133	112	60.4	30.7	15.8
2TLGM1400	1.75	2052	1789	1618	1467	1212	983	1.80	759	564	462	345	282	238	209	176	143	121	65.0	33.1	17.0
2TLGM1500	1.75	2198	1917	1734	1571	1299	1053	1.80	813	604	496	370	303	255	223	188	154	129	69.7	35.5	18.2
2TLGM1600	1.75	2345	2044	1850	1676	1385	1123	1.80	868	644	529	395	323	272	238	201	164	138	74.3	37.8	19.4
2TLGM1700	1.75	2492	2172	1965	1781	1472	1193	1.80	922	684	562	419	343	289	253	213	174	147	79.0	40.2	20.7
2TLGM1800	1.75	2638	2300	2081	1886	1559	1263	1.80	976	725	595	444	363	306	268	226	184	155	83.6	42.6	21.9
2TLGM2000	1.75	2931	2555	2312	2095	1732	1404	1.80	1085	805	661	493	403	340	298	251	205	172	92.9	47.3	24.3
2TLGM2100	1.75	3078	2683	2428	2200	1818	1474	1.80	1139	845	694	518	424	357	313	264	215	181	98	49.6	25.5
2TLGM2250	1.75	3298	2875	2601	2357	1948	1579	1.80	1220	906	743	555	454	383	335	282	230	194	105	53.2	27.3
2TLGM2400	1.75	3517	3066	2775	2514	2078	1684	1.80	1301	966	793	592	484	408	357	301	246	207	111	56.7	29.2
2TLGM2550	1.75	3737	3258	2948	2671	2208	1790	1.80	1383	1027	842	629	514	434	380	320	261	220	118	60.3	31.0
2TLGM2700	1.75	3957	3450	3121	2828	2338	1895	1.80	1464	1087	892	666	545	459	402	339	277	233	125	63.8	32.8
2TLGM3000	1.75	4397	3833	3468	3143	2598	2105	1.80	1627	1208	991	740	605	510	447	377	307	259	139	70.9	36.5

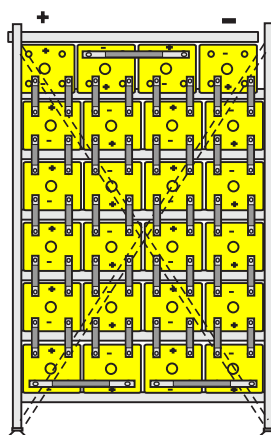
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Typical Tubular Zone 0 racks for 48Volt System

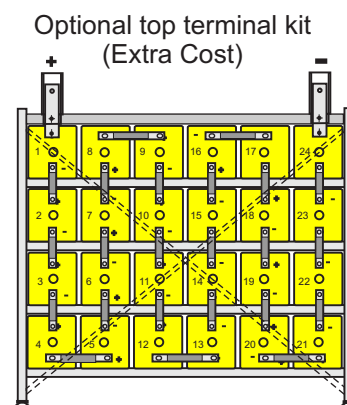
Note:- Cells 1500Ah. to 2800Ah. are currently made up of 2 x 750Ah.to 2 x1400Ah. and cell 3000Ah. made up of 3 x 1000Ah. connected in parallel or series



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 2TLGM Modular/Tubular - Watts to 1.67 / 1.75 vpc @ 20 C.

SEC Battery TYPE	END	DISCHARGE Watts per Cell at 20 C						END	DISCHARGE DATA Watts Per Cell AT 20 C									
	Volts / Cell	DISCHARGE TIME IN MINUTES						Volts / Cell	DISCHARGE TIME IN HOURS									
		5	10	15	20	30	45		1	1.5	2	3	4	5	6	8	10	
2TLGM100	1.67	259	242	231	209	165	130	1.75	109	79.4	65.4	50.0	41.0	34.4	29.8	24.2	20.2	
2TLGM150	1.67	387	363	346	314	248	196	1.75	166	119	97.1	74.2	60.8	51.0	44.2	35.9	29.7	
2TLGM200	1.67	517	484	462	418	331	261	1.75	221	158	130	98.9	81.1	68.0	59.0	47.9	39.6	
2TLGM250	1.67	646	604	577	523	414	326	1.75	276	198	162	124	101	85.0	73.7	59.9	49.5	
2TLGM300	1.67	775	725	692	628	496	391	1.75	331	237	194	148	122	102	88.5	71.9	59.4	
2TLGM350	1.67	904	846	808	732	579	457	1.75	387	277	227	173	142	119	103	83.8	69.3	
2TLGM400	1.67	1033	967	923	837	662	522	1.75	442	316	259	198	162	136	118	95.8	79.1	
2TLGM450	1.67	1162	1088	1038	941	744	587	1.75	497	356	291	223	182	153	133	108	89.0	
2TLGM500	1.67	1291	1209	1154	1046	827	652	1.75	552	395	324	247	203	170	147	120	98.9	
2TLGM550	1.67	1420	1330	1269	1150	910	717	1.75	607	435	356	272	223	187	162	132	109	
2TLGM600	1.67	1550	1451	1385	1255	993	783	1.75	663	474	389	297	243	204	177	144	119	
2TLGM650	1.67	1679	1571	1500	1360	1075	848	1.75	718	514	421	321	263	221	192	156	129	
2TLGM700	1.67	1808	1692	1615	1464	1158	913	1.75	773	553	453	346	284	238	206	168	139	
2TLGM750	1.67	1937	1813	1731	1569	1241	978	1.75	828	593	486	371	304	255	221	180	148	
2TLGM800	1.67	2066	1934	1846	1673	1323	1044	1.75	884	632	518	396	324	272	236	192	158	
2TLGM850	1.67	2195	2055	1962	1778	1406	1109	1.75	939	672	550	420	344	289	251	204	168	
2TLGM900	1.67	2324	2176	2077	1883	1489	1174	1.75	994	711	583	445	365	306	265	216	178	
2TLGM1000	1.67	2583	2418	2308	2092	1654	1305	1.75	1105	790	648	494	405	340	295	240	198	
2TLGM1100	1.67	2841	2659	2539	2301	1820	1435	1.75	1215	869	712	544	446	374	324	263	218	
2TLGM1200	1.67	3099	2901	2769	2510	1985	1565	1.75	1325	948	777	593	486	408	354	287	237	
2TLGM1300	1.67	3358	3143	3000	2719	2151	1696	1.75	1436	1027	842	643	527	442	383	311	257	
2TLGM1400	1.67	3616	3385	3231	2928	2316	1826	1.75	1546	1106	907	692	567	476	413	335	277	
2TLGM1500	1.67	3874	3627	3462	3138	2482	1957	1.75	1657	1185	971	742	608	510	442	359	297	
2TLGM1600	1.67	4132	3868	3692	3347	2647	2087	1.75	1767	1264	1036	791	648	544	472	383	317	
2TLGM1700	1.67	4391	4110	3923	3556	2812	2218	1.75	1878	1343	1101	841	689	578	501	407	336	
2TLGM1800	1.67	4649	4352	4154	3765	2978	2348	1.75	1988	1422	1166	890	729	612	531	431	356	
2TLGM2000	1.67	5165	4835	4616	4183	3309	2609	1.75	2209	1580	1295	989	811	680	590	479	396	
2TLGM2100	1.67	5424	5077	4846	4393	3474	2740	1.75	2320	1659	1360	1038	851	714	619	503	416	
2TLGM2250	1.67	5811	5440	5192	4706	3722	2935	1.75	2485	1778	1457	1113	912	765	664	539	445	
2TLGM2400	1.67	6199	5802	5539	5020	3970	3131	1.75	2651	1896	1554	1187	973	816	708	575	475	
2TLGM2550	1.67	6586	6165	5885	5334	4219	3327	1.75	2817	2015	1651	1261	1033	867	752	611	505	
2TLGM2700	1.67	6973	6528	6231	5648	4467	3522	1.75	2982	2133	1748	1335	1094	918	796	647	534	
2TLGM3000	1.67	7748	7253	6923	6275	4963	3914	1.75	3314	2370	1943	1483	1216	1020	885	719	594	

Actual discharge data may be +/- 5% of data shown - Single cells over 1400 Ah. not available until 2009

Features:

The **CELLYTE 2TLGM** '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

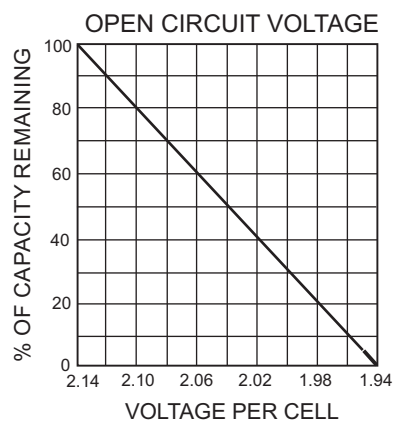
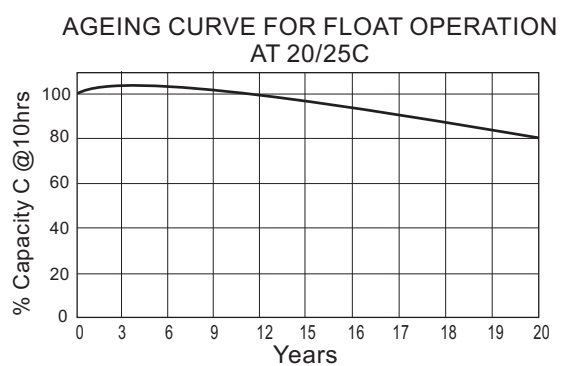
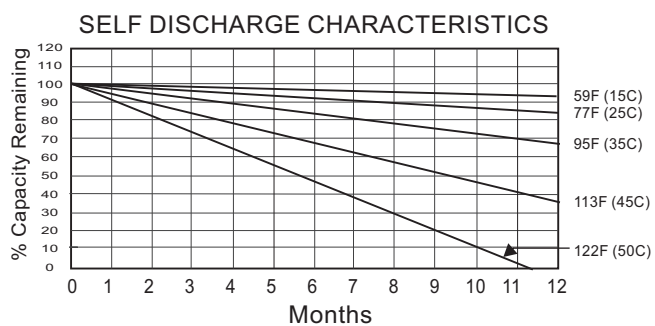
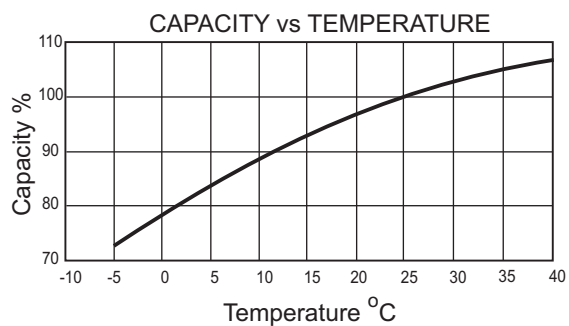
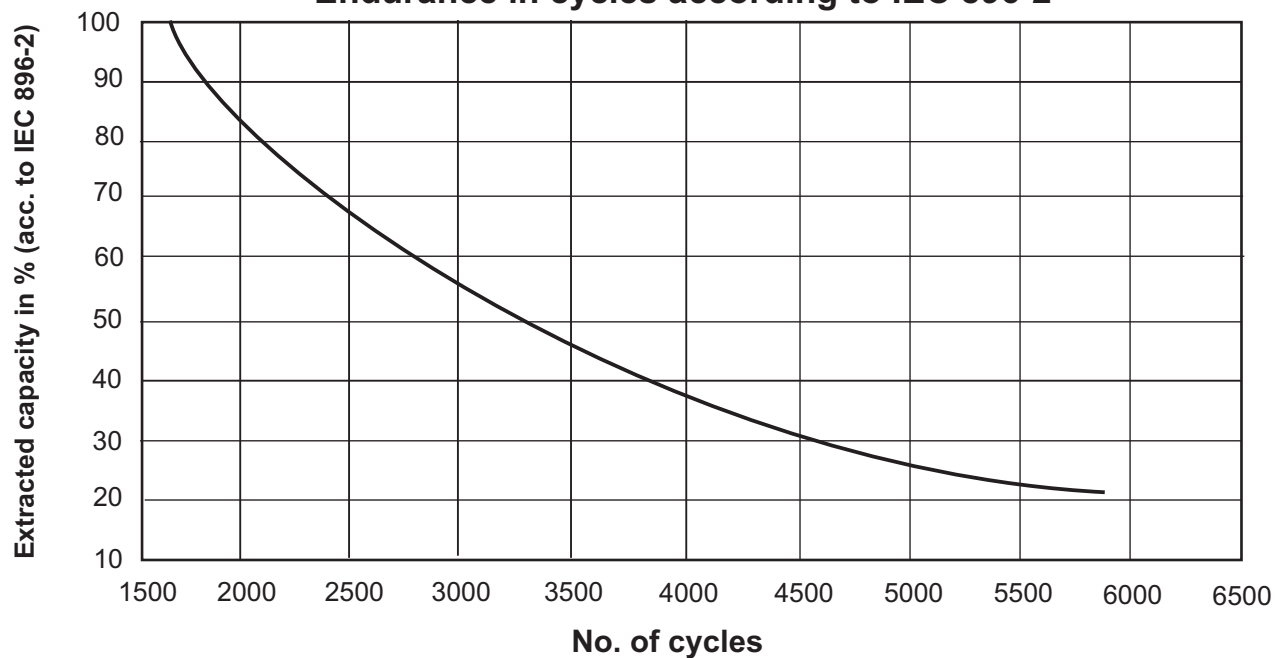
Zone 4 rated modules with horizontal cell layout provides smaller battery foot print

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

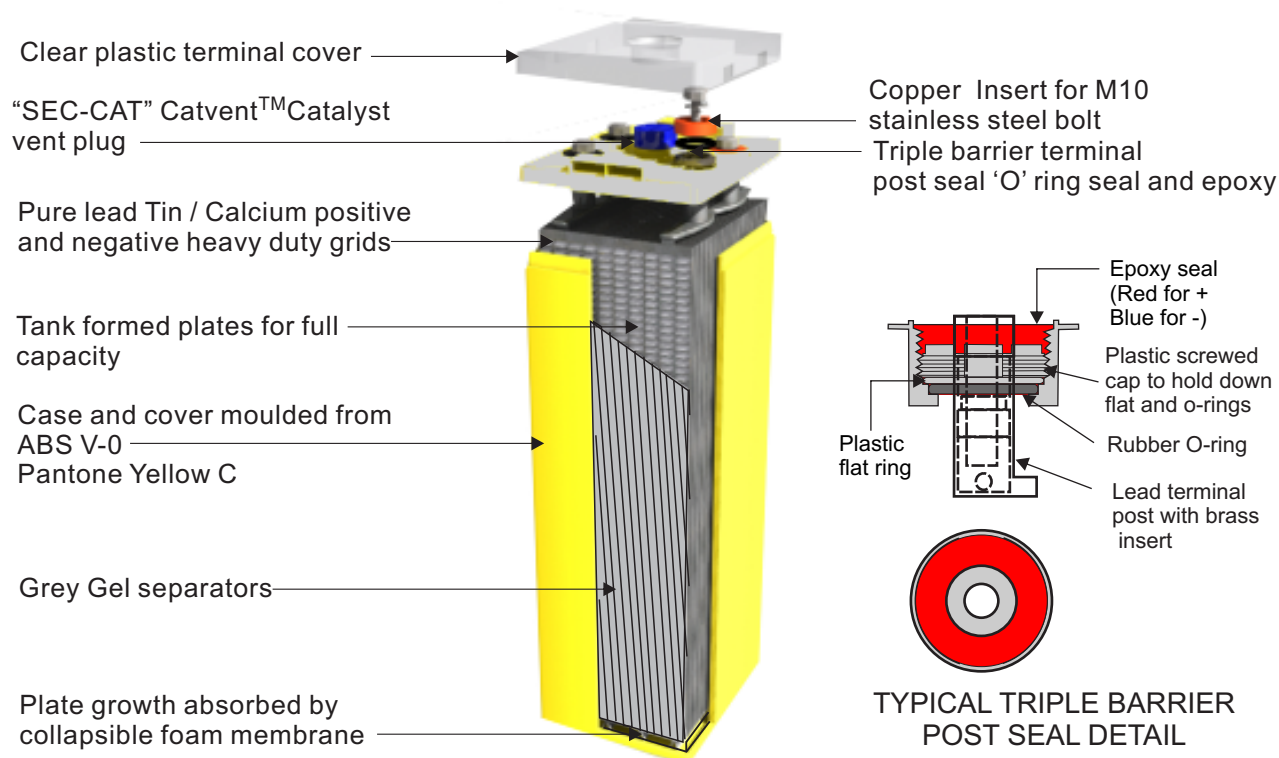
SEC's **CELLYTE 2TLGM** batteries are manufactured using modern technology in a new joint venture battery manufacturing facility. SEC has been able to draw on a wealth of international experience and knowledge to produce high quality reliable lead acid batteries. The continuing installation of modern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

Visit our website on www.secbattery.com / www.solarenergycentre.com

Endurance in cycles according to IEC 896-2



CELLYTE 2TLGM Gel 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

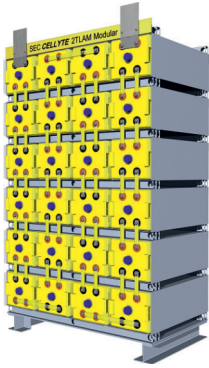
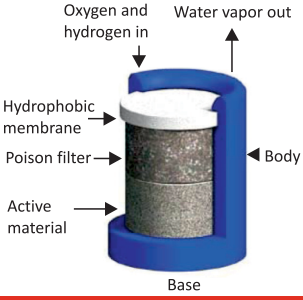
A reduction in float current reduces the amount of over-charge on the positive plate which directly impacts the corrosion rate. The design life of a lead acid cell is based on the corrosion of the plate barring any other unforeseen failure modes.

* 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.



SEC Industrial Battery Co. range of products

			
CELLYTE 2CMT/G Modular Steel Rack	CELLYTE 2TLAM/G Tubular Steel Rack	CELLYTE 2CMT/G, CELLYTE 2TLAM/G with Catalyst	
			
CELLYTE 12PLF & 12PLT Range	CELLYTE 12FTA/G Range	CELLYTE 6-12TUA Range	CELLYTE 6-12TSG Range
			
CELLYTE 6-12TLA Range	CELLYTE 6-12TLG Range	MICROLYTE +Plus Range	MICROLYTE Red Top Range
			
CELLYTE 2ETG OPzV Range Tubular Steel Rack	SEC Tubular OPzS Range	Nickel Cadmium Range Pocket Plate flooded and Valve Regulated	Typical VRLA catalyst

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