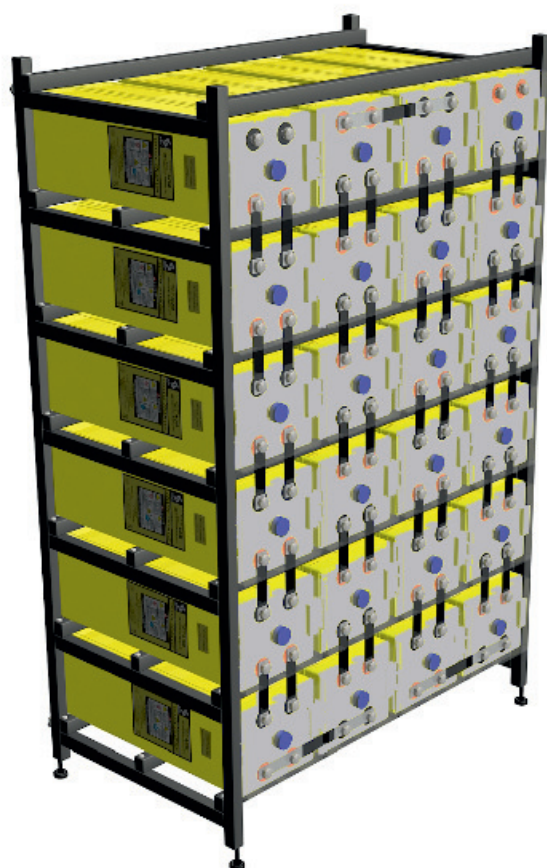


CELLYTE 2TLGM Range

STATIONARY TUBULAR RACK BATTERIES Gel TECHNOLOGY

15 YEARS DESIGN LIFE IN FLOAT SERVICE



**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

**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**

APPLICATIONS

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



CELLYTE - Battery Sizing 2TLGM Range

CELLYTE 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	98.0	100	103	111	113	122
2TLGM150	1.75	220	192	174	157	130	105	1.80	81.3	90.6	99.2	111	121	128	134	147	150	155	167	170	183
2TLGM200	1.75	293	256	232	209	173	140	1.80	108	121	132	148	161	170	179	196	200	206	222	226	244
2TLGM250	1.75	367	320	290	262	216	175	1.80	136	151	165	185	202	213	224	245	250	258	278	283	305
2TLGM300	1.75	440	384	348	314	260	211	1.80	163	181	198	222	242	255	268	294	300	309	333	339	366
2TLGM350	1.75	513	448	406	366	303	246	1.80	190	211	231	259	282	298	313	343	350	361	389	396	427
2TLGM400	1.75	586	512	464	418	346	281	1.80	217	242	264	296	323	340	358	392	400	412	444	452	488
2TLGM420	1.75	616	537	487	439	364	295	1.80	228	254	278	311	339	357	375	412	420	433	467	475	512
2TLGM450	1.75	660	576	522	471	390	316	1.80	244	272	297	333	363	383	402	441	450	464	500	509	549
2TLGM500	1.75	733	640	580	523	433	351	1.80	271	302	331	370	404	426	447	490	500	516	556	566	610
2TLGM550	1.75	806	704	638	575	476	386	1.80	298	332	364	407	444	468	492	539	550	567	611	622	670
2TLGM600	1.75	880	767	696	628	519	421	1.80	325	362	397	444	484	511	536	588	600	619	667	679	731
2TLGM650	1.75	953	831	754	680	563	456	1.80	352	393	430	481	525	553	581	637	650	670	722	735	792
2TLGM700	1.75	1026	895	812	732	606	491	1.80	379	423	463	518	565	596	626	686	700	722	778	792	853
2TLGM750	1.75	1100	959	870	785	649	526	1.80	407	453	496	555	605	638	671	735	750	773	833	848	914
2TLGM800	1.75	1173	1023	928	837	692	562	1.80	434	483	529	592	646	681	715	784	800	825	889	905	975
2TLGM850	1.75	1246	1087	986	889	736	597	1.80	461	513	562	629	686	723	760	833	850	876	944	961	1036
2TLGM900	1.75	1319	1151	1044	941	779	632	1.80	488	544	595	666	726	766	805	882	900	928	1000	1018	1097
2TLGM1000	1.75	1466	1279	1160	1046	866	702	1.80	542	604	661	740	807	851	894	980	1000	1031	1111	1131	1220
2TLGM1100	1.75	1613	1407	1276	1151	952	772	1.80	596	664	727	814	888	936	983	1078	1100	1134	1222	1244	1341
2TLGM1200	1.75	1759	1535	1392	1255	1039	842	1.80	650	725	793	888	968	1021	1073	1176	1200	1237	1333	1357	1463
2TLGM1300	1.75	1906	1663	1508	1360	1125	912	1.80	705	785	859	962	1049	1106	1162	1274	1300	1340	1444	1470	1585
2TLGM1400	1.75	2053	1791	1624	1464	1212	983	1.80	759	846	925	1036	1130	1191	1252	1372	1400	1443	1555	1583	1707
2TLGM1500	1.75	2199	1919	1740	1569	1298	1053	1.80	813	906	992	1110	1211	1277	1341	1470	1500	1547	1667	1697	1829
2TLGM1600	1.75	2346	2047	1856	1674	1385	1123	1.80	867	966	1058	1184	1291	1362	1430	1568	1600	1650	1778	1810	1950
2TLGM1700	1.75	2492	2175	1972	1778	1471	1193	1.80	921	1027	1124	1258	1372	1447	1520	1666	1700	1753	1889	1923	2072
2TLGM1800	1.75	2639	2302	2088	1883	1558	1263	1.80	976	1087	1190	1332	1453	1532	1609	1764	1800	1856	2000	2036	2194
2TLGM2000	1.75	2932	2558	2320	2092	1731	1404	1.80	1084	1208	1322	1480	1614	1702	1788	1960	2000	2062	2222	2262	2440
2TLGM2200	1.75	3225	2814	2552	2301	1904	1544	1.80	1192	1329	1454	1628	1775	1872	1967	2156	2200	2268	2444	2488	2682
2TLGM2400	1.75	3519	3070	2784	2511	2077	1685	1.80	1301	1450	1586	1776	1937	2042	2146	2352	2400	2474	2666	2714	2926
2TLGM2600	1.75	3812	3326	3016	2720	2250	1825	1.80	1409	1570	1719	1924	2098	2213	2324	2548	2600	2681	2889	2941	3169
2TLGM2800	1.75	4105	3582	3248	2929	2424	1965	1.80	1518	1691	1851	2072	2260	2383	2503	2744	2800	2887	3111	3167	3413
2TLGM3000	1.75	4398	3837	3480	3138	2597	2106	1.80	1626	1812	1983	2220	2421	2553	2682	2940	3000	3093	3333	3393	3657

Actual discharge data may be +/- 5% of data shown - Single cells over 1000 ah not available

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 - Battery Sizing 2TLGM Range

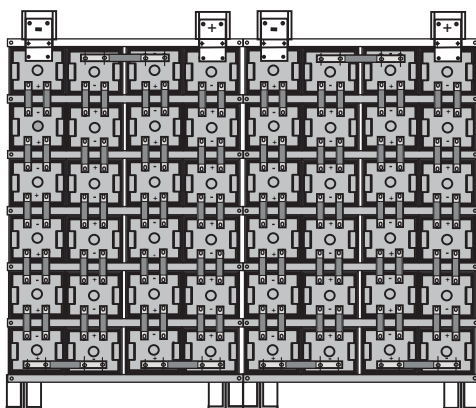
CELLYTE 2TLGM - Modular & Tubular Dims, Weights & Data

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 mm	Width mm	Height mm H1	Height mm H2	CELL KG	Length Mod/Tub	Depth mm	Height mm	Weight 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	374	396	25	966/1010	410	1010	720/670	0.390	580	2900	2
2TLGM400	400	151	187	374	396	28	966/1010	410	1010	810/750	0.360	640	3200	2
2TLGM420	420	151	187	374	396	29	966/1010	410	1010	810/750	0.350	660	3300	2
2TLGM450	450	151	187	374	396	32	966/1010	410	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	235	212	665	690	76	1001/1023	705	1590	2130/1950	0.145	1800	9000	8
2TLGM1200	1200	235	212	665	690	80	1001/1023	705	1590	2250/2060	0.150	1940	9600	8
2TLGM1300	1300	235	212	665	690	85	1001/1023	705	1590	2360/2160	0.120	2060	10200	8
2TLGM1400	1400	235	212	665	690	90	1001/1023	705	1590	2530/2320	0.115	2240	11200	8
2TLGM1500	1500	235	212	665	690	100	1001/1023	705	1590	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
2TLGM2200	2200	2 x 235	212	665	690	2 x 76	2002/2046	705	1590	4260/3900	0.070	3360	16800	12
2TLGM2400	2400	2 x 235	212	665	690	2 x 80	2002/2046	705	1590	4490/4120	0.065	3600	18000	12
2TLGM2600	2600	2 x 235	212	665	690	2 x 85	2002/2046	705	1590	4720/4330	0.063	3840	19200	12
2TLGM2800	2800	2 x 235	212	665	690	2 x 90	2002/2046	705	1590	5070/4640	0.060	4380	21900	12
2TLGM3000	3000	2 x 235	212	665	690	2 x 100	2002/2046	705	1590	5530/5070	0.055	4740	23700	12

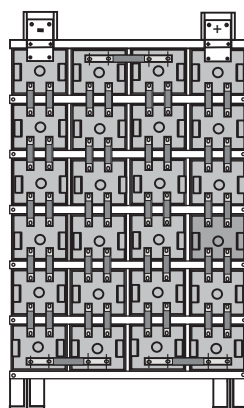
Actual discharge data may be +/- 5% of data shown - Single cells over 1500 ah not available

Typical Modular Zone 4 Racks for 48 Volt Systems

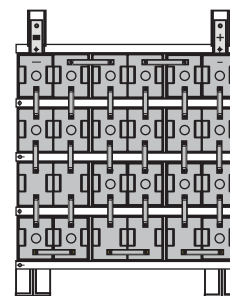
Note:- Cells over 1500Ah. are made up of 2 x 800Ah. for 1600Ah. to 2 x1500Ah. for 3000Ah. connected in parallel or series



Front view
24 cells 2TLGM1600 to 3000
(2 x 24 cells 2TLGM800 to 1500)
2 x 4 post cells



Front View
24 cells 2TLGM750 to 1500
4 post cells



Front View
24 cells 2TLGM100 to 700
2 post cells

CELLYTE - Battery Sizing 2TLGM Range

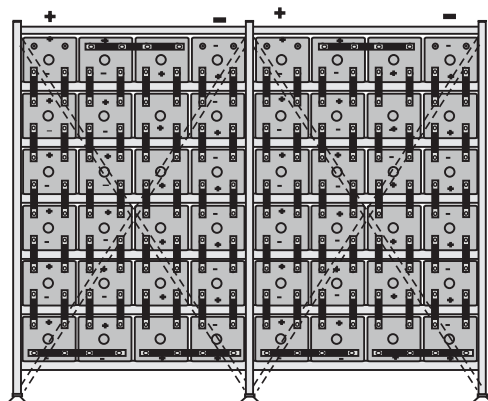
CELLYTE 2TLGM Modular - Amps Data TO 1.80 vpc @ 20 C.

SEC Battery TYPE	END	DATA AMPS @ 20 C						END	DISCHARGE DATA AMPS TO 1.80 vpc @ 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	12	24	48	100		
2TLGM100	1.75	153	133	119	106	86.9	69.5	1.80	54.2	40.3	33.1	24.7	20.2	17.0	14.9	12.3	10.0	8.59	4.63	2.36	1.22		
2TLGM150	1.75	230	200	179	160	130	104	1.80	81.3	60.4	49.6	37.0	30.3	25.5	22.4	18.4	15.0	12.9	6.94	3.53	1.83		
2TLGM200	1.75	306	267	239	213	174	139	1.80	108	80.5	66.1	49.3	40.4	34.0	29.8	24.5	20.0	17.2	9.26	4.71	2.44		
2TLGM250	1.75	383	333	298	266	217	174	1.80	136	101	82.6	61.7	50.4	42.6	37.3	30.6	25.0	21.5	11.6	5.89	3.05		
2TLGM300	1.75	459	400	358	319	261	209	1.80	163	121	99.2	74.0	60.5	51.1	44.7	36.8	30.0	25.8	13.9	7.07	3.66		
2TLGM350	1.75	536	467	418	373	304	243	1.80	190	141	116	86.3	70.6	59.6	52.2	42.9	35.0	30.1	16.2	8.25	4.27		
2TLGM400	1.75	612	534	478	426	348	278	1.80	217	161	132	98.7	80.7	68.1	59.6	49.0	40.0	34.4	18.5	9.43	4.88		
2TLGM420	1.75	612	534	478	426	348	278	1.80	228	169	139	104	84.7	71.5	62.6	51.5	42.0	36.1	19.4	9.90	5.12		
2TLGM450	1.75	689	600	537	479	391	313	1.80	244	181	149	111	90.8	76.6	67.1	55.1	45.0	38.7	20.8	10.6	5.49		
2TLGM500	1.75	765	667	597	532	434	348	1.80	271	201	165	123	101	85.1	74.5	61.3	50.0	43.0	23.1	11.8	6.10		
2TLGM550	1.75	842	734	657	586	478	382	1.80	298	221	182	136	111	93.6	82.0	67.4	55.0	47.3	25.5	13.0	6.70		
2TLGM600	1.75	918	800	716	639	521	417	1.80	325	242	198	148	121	102	89.4	73.5	60.0	51.6	27.8	14.1	7.31		
2TLGM650	1.75	995	867	776	692	565	452	1.80	352	262	215	160	131	111	96.9	79.6	65.0	55.8	30.1	15.3	7.92		
2TLGM700	1.75	1071	934	836	745	608	487	1.80	379	282	231	173	141	119	104	85.8	70.0	60.1	32.4	16.5	8.53		
2TLGM750	1.75	1148	1000	895	799	652	521	1.80	407	302	248	185	151	128	112	91.9	75.0	64.4	34.7	17.7	9.14		
2TLGM800	1.75	1224	1067	955	852	695	556	1.80	434	322	264	197	161	136	119	98.0	80.0	68.7	37.0	18.9	9.75		
2TLGM850	1.75	1301	1134	1015	905	738	591	1.80	461	342	281	210	171	145	127	104	85.0	73.0	39.3	20.0	10.4		
2TLGM900	1.75	1377	1201	1074	958	782	626	1.80	488	362	297	222	182	153	134	110	90.0	77.3	41.7	21.2	11.0		
2TLGM1000	1.75	1530	1334	1194	1065	869	695	1.80	542	403	331	247	202	170	149	123	100	85.9	46.3	23.6	12.2		
2TLGM1100	1.75	1683	1467	1313	1171	956	765	1.80	596	443	364	271	222	187	164	135	110	94.5	50.9	25.9	13.4		
2TLGM1200	1.75	1836	1601	1433	1278	1043	834	1.80	650	483	397	296	242	204	179	147	120	103	55.6	28.3	14.6		
2TLGM1300	1.75	1989	1734	1552	1384	1129	904	1.80	705	523	430	321	262	221	194	159	130	112	60.2	30.6	15.8		
2TLGM1400	1.75	2142	1868	1671	1491	1216	973	1.80	759	564	463	345	282	238	209	172	140	120	64.8	33.0	17.1		
2TLGM1500	1.75	2295	2001	1791	1597	1303	1043	1.80	813	604	496	370	303	255	224	184	150	129	69.4	35.3	18.3		
2TLGM1600	1.75	2448	2134	1910	1704	1390	1112	1.80	867	644	529	395	323	272	238	196	160	137	74.1	37.7	19.5		
2TLGM1700	1.75	2601	2268	2030	1810	1477	1182	1.80	921	685	562	419	343	289	253	208	170	146	78.7	40.1	20.7		
2TLGM1800	1.75	2754	2401	2149	1917	1564	1251	1.80	976	725	595	444	363	306	268	221	180	155	83.3	42.4	21.9		
2TLGM2000	1.75	3060	2668	2388	2130	1738	1390	1.80	1084	805	661	493	404	340	298	245	200	172	92.6	47.1	24.4		
2TLGM2200	1.75	3366	2935	2627	2343	1911	1529	1.80	1192	886	727	543	444	374	328	270	220	189	102	51.8	26.8		
2TLGM2400	1.75	3366	2935	2627	2343	1911	1529	1.80	1301	966	793	592	484	408	358	294	240	206	111	56.6	29.3	31.7	
2TLGM2600	1.75	3672	3202	2865	2556	2085	1668	1.80	1409	1047	859	641	525	443	387	319	260	223	120	61.3	31.7		
2TLGM2800	1.75	3978	3468	3104	2769	2259	1807	1.80	1518	1127	925	691	565	477	417	343	280	241	130	66.0	34.1		
2TLGM3000	1.75	4590	4002	3582	3195	2606	2085	1.80	1626	1208	992	740	605	511	447	368	300	258	139	70.7	36.6		

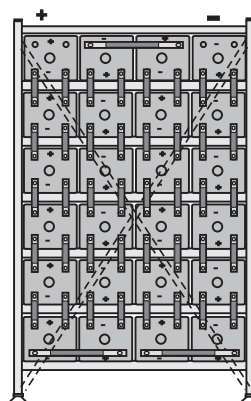
Actual discharge data may be +/- 5% of data shown - Single cells over 1000 ah not available

Typical Tubular Zone 0 racks for 48Volt System

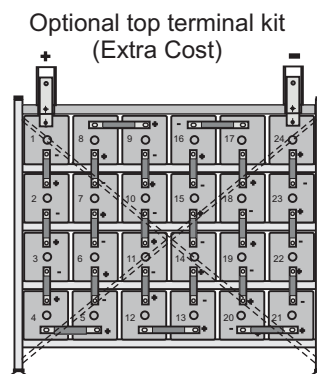
Note:- Cells over 1500Ah. are made up of 2 x 800Ah. for 1600Ah. to 2 x1500Ah. for 3000Ah. connected in parallel or series



Front View
24 cells 2TLGM1600 to 3000
(2 x 24 cells 2TLGM800 to 1500)
2 x 4 post cells



Front view
24 cells 2TLGM750 to 1500
4 post cells



Front view
24 cells 2TLGM100 to 700
2 post cells

CELLYTE - Battery Sizing 2TLGM Range

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	262	229	208	189	158	130	1.75	109	79.4	65.4	50.0	41.0	34.4	29.8	24.2	20.2	
2TLGM150	1.67	393	343	312	283	237	194	1.75	166	119	97.1	74.2	60.8	51.0	44.2	35.9	29.7	
2TLGM200	1.67	523	458	416	377	316	259	1.75	221	158	130	98.9	81.1	68.0	59.0	47.9	39.6	
2TLGM250	1.67	654	572	520	472	395	324	1.75	276	198	162	124	101	85.0	73.7	59.9	49.5	
2TLGM300	1.67	785	686	624	566	474	389	1.75	331	237	194	148	122	102	88.5	71.9	59.4	
2TLGM350	1.67	916	801	728	660	553	454	1.75	387	277	227	173	142	119	103	83.8	69.3	
2TLGM400	1.67	1047	915	831	755	632	519	1.75	442	316	259	198	162	136	118	95.8	79.1	
2TLGM420	1.67	1099	961	873	793	664	545	1.75	442	316	259	198	162	136	118	95.8	79.1	
2TLGM450	1.67	1178	1030	935	849	711	583	1.75	497	356	291	223	182	153	133	108	89.0	
2TLGM500	1.67	1309	1144	1039	944	790	648	1.75	552	395	324	247	203	170	147	120	99	
2TLGM550	1.67	1439	1258	1143	1038	869	713	1.75	607	435	356	272	223	187	162	132	109	
2TLGM600	1.67	1570	1373	1247	1132	948	778	1.75	663	474	389	297	243	204	177	144	119	
2TLGM650	1.67	1701	1487	1351	1227	1027	843	1.75	718	514	421	321	263	221	192	156	129	
2TLGM700	1.67	1832	1602	1455	1321	1106	908	1.75	773	553	453	346	284	238	206	168	139	
2TLGM750	1.67	1963	1716	1559	1415	1185	972	1.75	828	593	486	371	304	255	221	180	148	
2TLGM800	1.67	2094	1830	1663	1510	1264	1037	1.75	884	632	518	396	324	272	236	192	158	
2TLGM850	1.67	2224	1945	1767	1604	1343	1102	1.75	939	672	550	420	344	289	251	204	168	
2TLGM900	1.67	2355	2059	1871	1698	1422	1167	1.75	994	711	583	445	365	306	265	216	178	
2TLGM1000	1.67	2617	2288	2079	1887	1580	1297	1.75	1105	790	648	494	405	340	295	240	198	
2TLGM1100	1.67	2879	2517	2287	2076	1738	1426	1.75	1215	869	712	544	446	374	324	263	218	
2TLGM1200	1.67	3140	2746	2494	2265	1896	1556	1.75	1325	948	777	593	486	408	354	287	237	
2TLGM1300	1.67	3402	2975	2702	2453	2054	1686	1.75	1436	1027	842	643	527	442	383	311	257	
2TLGM1400	1.67	3664	3203	2910	2642	2213	1815	1.75	1546	1106	907	692	567	476	413	335	277	
2TLGM1500	1.67	3926	3432	3118	2831	2371	1945	1.75	1657	1185	971	742	608	510	442	359	297	
2TLGM1600	1.67	4187	3661	3326	3019	2529	2075	1.75	1767	1264	1036	791	648	544	472	383	317	
2TLGM1700	1.67	4449	3890	3534	3208	2687	2204	1.75	1878	1343	1101	841	689	578	501	407	336	
2TLGM1800	1.67	4711	4119	3742	3397	2845	2334	1.75	1988	1422	1166	890	729	612	531	431	356	
2TLGM2000	1.67	5234	4576	4157	3774	3161	2593	1.75	2209	1580	1295	989	811	680	590	479	396	
2TLGM2200	1.67	5496	4805	4365	3963	3319	2723	1.75	2320	1659	1360	1038	851	714	619	503	416	
2TLGM2400	1.67	5888	5148	4677	4246	3556	2917	1.75	2485	1778	1457	1113	912	765	664	539	445	
2TLGM2600	1.67	6281	5491	4989	4529	3793	3112	1.75	2651	1896	1554	1187	973	816	708	575	475	
2TLGM2800	1.67	6673	5835	5301	4812	4030	3306	1.75	2817	2015	1651	1261	1033	867	752	611	505	
2TLGM3000	1.67	7851	6864	6236	5661	4741	3890	1.75	3314	2370	1943	1483	1216	1020	885	719	594	

Actual discharge data may be +/- 5% of data shown - Single cells over 1000 ah not available

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

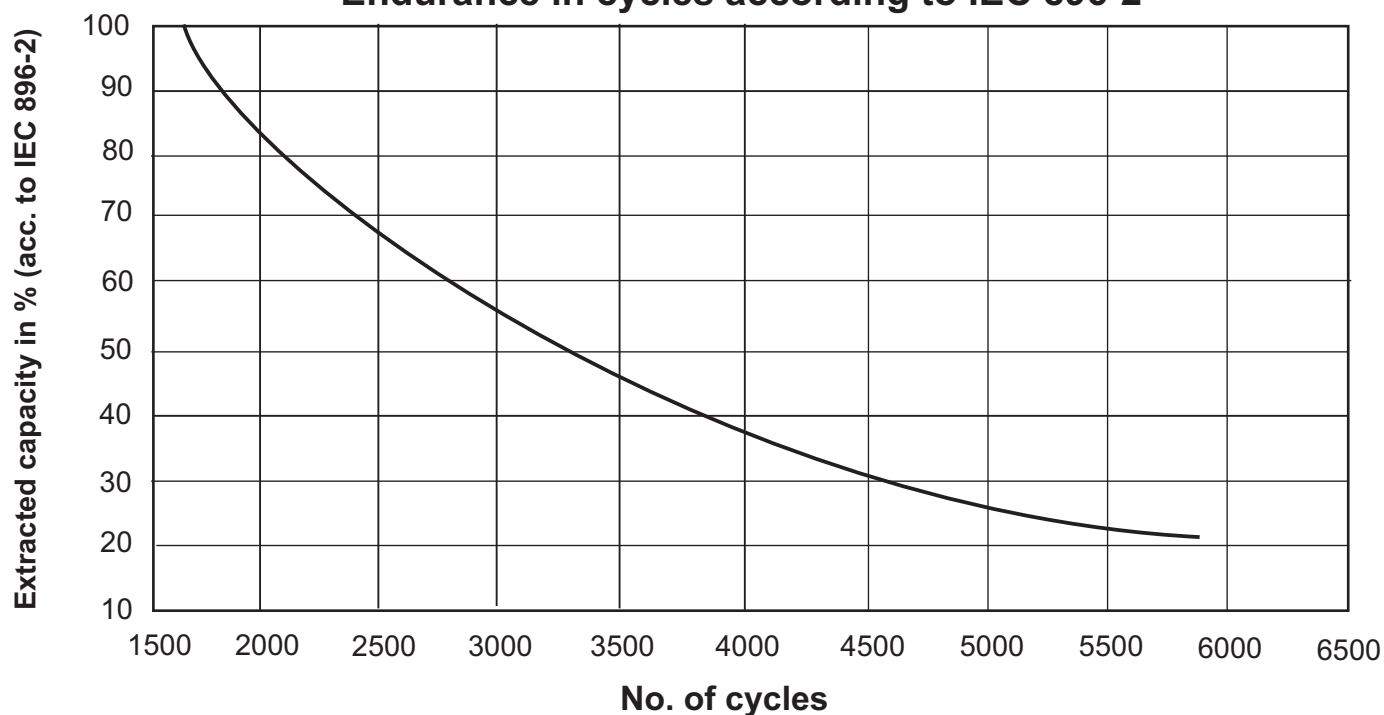
Zone 4 rated modules with horizontal cell layout provides smaller battery foot print

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

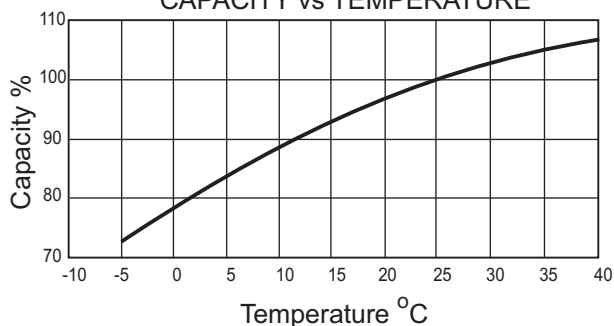
SEC's **CELLYTE** 2TLGM batteries are manufactured using modern technology in a new joint venture battery manufacturing facility. SEC has been able to draw on a wealth of international experience and knowledge to produce high quality reliable lead acid batteries. The continuing installation of modern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

CELLYTE - Battery Sizing 2TLGM Range

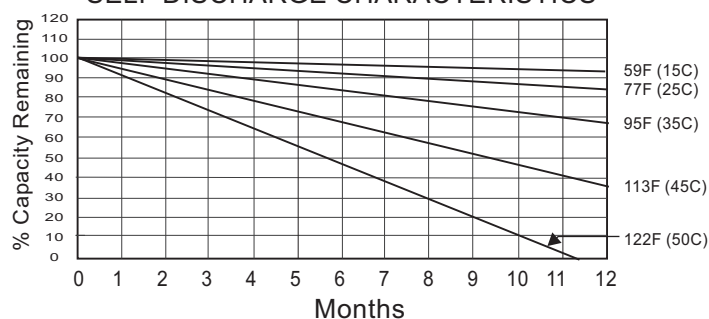
Endurance in cycles according to IEC 896-2



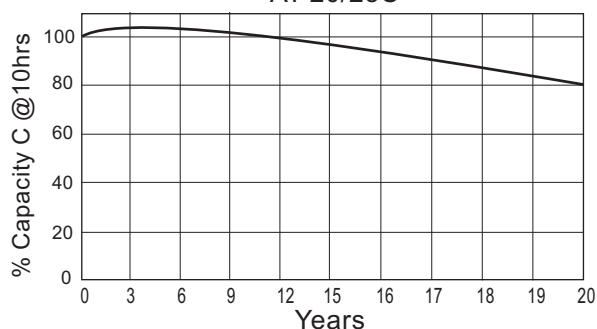
CAPACITY vs TEMPERATURE



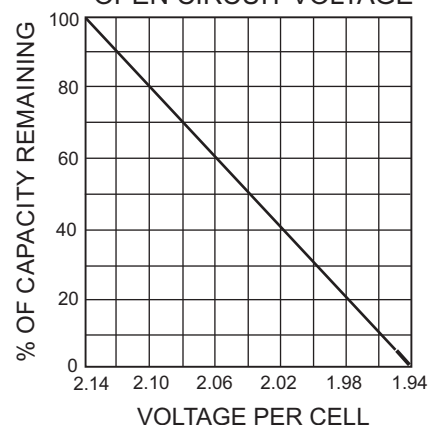
SELF DISCHARGE CHARACTERISTICS



AGEING CURVE FOR FLOAT OPERATION AT 20/25C

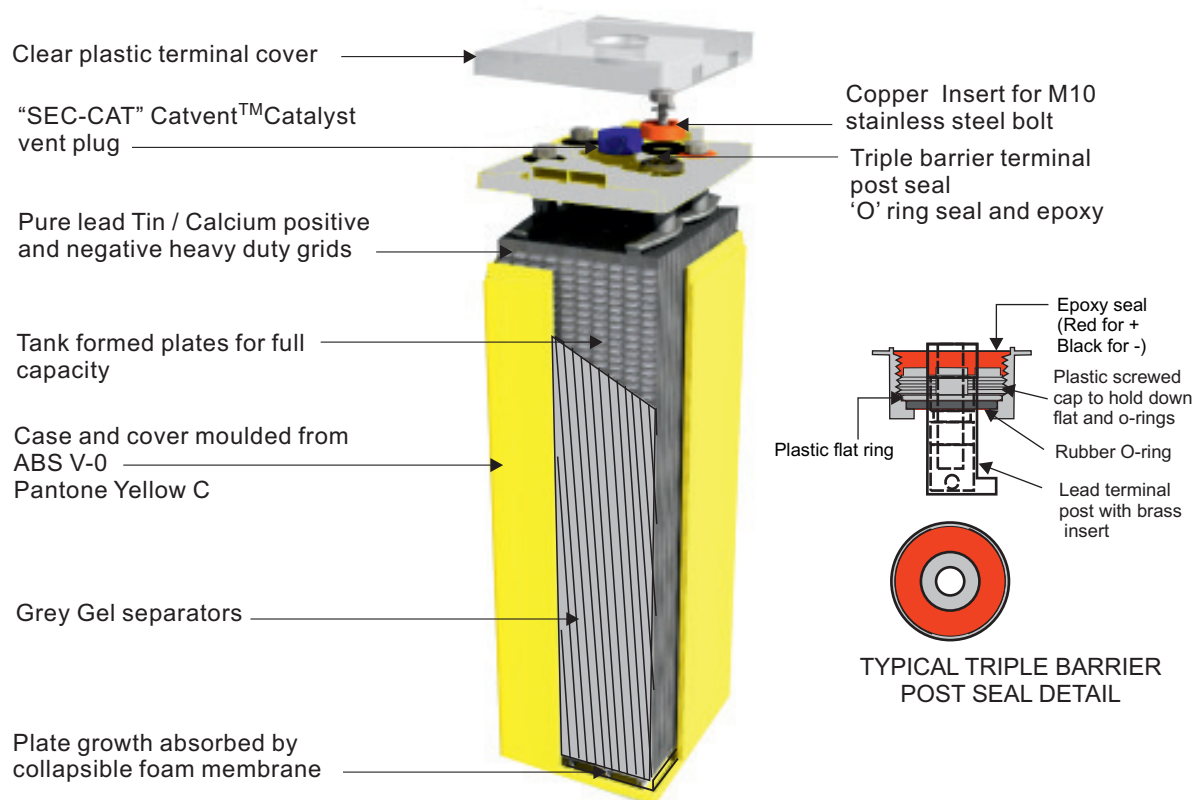


OPEN CIRCUIT VOLTAGE



CELLYTE - 2TLGM Range Data

CELLYTE 2TLGM 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

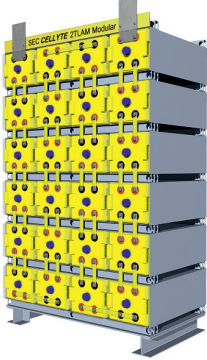
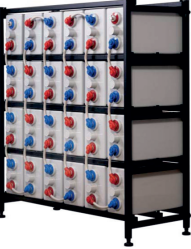
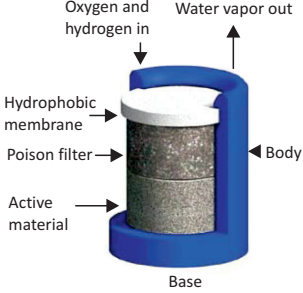
* Minimize positive plate corrosion

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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Industrial Battery Co.
world wide supplier

