CELLYTE 6-12TLA Range

SEALED VRLA MONOBLOC BATTERIES

CAPACITIES : 15 Ah. to 275 Ah.

CELLYTE TLA Bloc sealed valve regulated rechargeable batteries are maintenance free. ***CELLYTE*** TLA Bloc advanced AGM absorbed electrolyte technology ensures reliable performance, safety, outstanding battery life and value. Batteries have a design life of 12 years in float service at 20-25C and comply with BS 6290 Part 4 (optional), EUROBAT(draft IEC 896-2) standards and is a recognised component of UL1989 under the standby battery category. ***CELLYTE*** TLA Bloc batteries also comply with the latest specifications of the Power and Telecommunications Industry.

FEATURES

* Valve regulated lead acid (VRLA) design
* Non-gassing
* Never needs water
* Multi-position usage
* Spill-proof and leak- proof
* Operates at low internal pressure
* Multi-cell container
* Safe for air transportation (IATA provision A-67)
* Flame retardant material V-0 (option-required to meet BS6290 Part 4)

APPLICATION

* Telecommunications
* Emergency lighting
* Switch-gear operations
* UPS system
* Cellular radio
* Computer power supply
* Standby power supply
* Photovoltaic

Introduction.

SEC Batteries have been used in the industrial battery market for over 20 years. SEC's high quality, 10 year design life, reliable AGM technology lead acid batteries have a proven record and we have extended our range of 12TLA batteries to include larger sizes. New features include handles for easy lifting, copper insert terminals for higher current capacity and reduced damage during transportation, designed to comply with EUROBAT (draft IEC 896-2), IEEE, JIS and BS 6290 Part 4, using UL certified components.

- **Valve Regulated Construction (Sealed)**
  The battery is of the AGM (absorbed glass mat) valve regulated (sealed) lead acid rechargeable type. The electrolyte is suspended in a specially formulated non woven glass mat separator. All the electrolyte is absorbed in this manner and provides a safe non-spillable battery.

- **Gas Recombination System.**
  The gasses generated in the normal charge/discharge use of a rechargeable battery are internally recombined during normal operating parameters. In fact, in normal operational use, more than 99% of the gases generated are recombined.

- **Maintenance.**
  The battery has been designed and built such that no addition of electrolyte is needed for the life of the battery. There is no need to add water or take specific gravity readings.

- **Battery Life - Float Service.**
  The SEC TLA battery is suitable for float (standby) service with life of 12 years at 20^{o}C

- **Safety Valve.**
  If excess pressure builds up within the battery, the safety valve automatically opens releasing the gas at 1-3 p.s.i then automatically closes. The valve does not allow the ingress of oxygen which is harmful to the efficient operation and life of the battery.

- **Temperature Range for Normal Operation.**
  The SEC Battery has a wide operating temperature range of –20C to +55C. However for maximum life and safety, continuous operation over 40 Deg C is not recommended for any valve regulated battery.

- **Grid Design and Paste Formulation.**
  SEC has optimized the grid design and paste formulation to maximize the operating and storage life of the battery. This optimized design provides the following advantages.

  Excellent recovery from deep discharge or over discharge
  Low self discharge to ensure maximum storage time when not in use.
  Excellent cycling capability for an AGM battery
  Adequate safety margins in tough operating conditions.

- **Use In any Position.**
  The SEC battery is designed to use in both Vertical and Horizontal position.

CELLYTE Bloc 6-12TLA Ampere Hour Data @ 20 C.

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA AMPS @ 20 C. DISCHARGE TIME IN MINUTES 5	10	15	20	30	45	END Volts / CELL	DISCHARGE DATA AMPERE HOURS @ 20 C DISCHARGE TIME IN HOURS 1	1.5	2	3	4	5	6	8	10	12	20	24
6TLA 130	1.80	337	251	198	175	127	94.8	1.85	67.8	78.4	83.9	89.6	93.8	97.2	101	108	109	111	120	121
	1.75	388	281	215	158	131	97.8	1.80	71.3	83.2	89.0	95.1	100	103	107	114	117	119	128	130
	1.67	418	306	226	165	134	98.1	1.75	73.4	85.2	91.2	97.4	102	106	109	117	120	122	132	134
6TLA 200	1.80	506	376	298	262	191	142	1.85	102	118	126	134	141	146	151	161	164	167	180	181
	1.75	582	422	323	240	197	147	1.80	107	125	134	143	149	155	160	171	175	179	192	195
	1.67	627	459	339	251	202	147	1.75	110	128	137	146	153	158	164	175	180	184	198	201
6TLA 210	1.80	562	418	331	291	212	158	1.85	113	131	140	149	156	162	168	179	182	186	200	201
	1.75	646	468	359	264	219	163	1.80	119	139	148	159	166	172	178	190	195	198	214	217
	1.67	697	510	377	275	224	164	1.75	122	142	152	162	170	176	182	195	200	204	220	223
6TLA 230	1.80	590	439	347	306	222	166	1.85	119	137	147	157	164	170	176	188	191	195	209	210
	1.75	679	492	377	264	230	171	1.80	125	146	156	166	174	180	187	199	205	208	224	227
	1.67	732	536	396	275	235	172	1.75	129	149	160	171	179	185	191	205	210	214	230	233
12TLA 15	1.80	45.5	33.9	26.8	23.6	17.2	12.8	1.85	8.6	10.6	11.3	12.1	12.7	13.1	13.6	14.5	14.7	15.0	16.4	16.9
	1.75	52.4	37.9	29.1	23.7	17.8	13.2	1.80	9.6	11.2	12.0	12.8	13.4	13.9	14.4	15.4	15.8	16.1	17.5	18.0
	1.67	56.5	41.3	30.5	24.8	18.1	13.2	1.75	9.9	11.5	12.3	13.2	13.8	14.3	14.8	15.8	16.2	16.5	18.0	18.3
12TLA 20	1.80	64.1	47.7	37.7	33.2	24.1	18.0	1.85	12.9	14.9	15.9	17.0	17.8	18.5	19.1	20.4	20.7	21.2	21.8	21.9
	1.75	73.7	53.4	40.9	31.7	25.0	18.6	1.80	13.5	15.8	16.9	18.1	18.9	19.6	20.3	21.7	22.2	22.6	23.3	24.0
	1.67	79.5	58.2	43.0	33.1	25.5	18.6	1.75	14.0	16.2	17.3	18.5	19.4	20.1	20.8	22.2	22.8	23.3	24.0	24.4
12TLA 25	1.80	73.1	54.4	43.0	37.9	27.5	20.5	1.85	14.7	17.0	18.2	19.4	20.3	21.0	21.8	23.3	23.7	24.1	25.5	25.6
	1.75	84.0	60.9	46.6	34.3	28.5	21.2	1.80	15.4	18.0	19.3	20.6	21.6	22.3	23.1	24.7	25.3	25.8	27.2	26.0
	1.67	90.6	66.3	49.0	35.8	29.1	21.3	1.75	15.9	18.5	19.8	21.1	22.1	22.9	23.7	25.3	26.0	26.5	28.0	28.4
12TLA 35	1.80	89.9	66.9	52.9	46.6	33.9	25.3	1.85	18.1	20.9	22.4	23.9	25.0	25.9	26.8	28.7	29.1	29.7	30.9	31.1
	1.75	103	75.0	57.4	43.5	35.1	26.1	1.80	19.0	22.2	23.7	25.4	26.5	27.5	28.5	30.4	31.2	31.8	33.0	33.0
	1.67	112	81.6	60.3	45.5	35.8	26.2	1.75	19.6	22.7	24.3	26.0	27.2	28.2	29.2	31.2	32.0	32.6	34.0	34.5
12TLA 40	1.80	110	81.8	64.7	57.0	41.4	30.9	1.85	22.1	25.5	27.3	29.2	30.6	31.7	32.8	35.0	35.6	36.3	37.2	36.4
	1.75	126	91.6	70.2	51.6	42.9	31.9	1.80	23.2	27.1	29.0	31.0	32.4	33.6	34.8	37.1	38.1	38.8	39.7	39.1
	1.67	136	99.8	73.7	53.9	43.8	32.0	1.75	23.9	27.8	29.7	31.8	33.2	34.4	35.6	38.1	39.1	39.9	40.9	41.5
12TLA 45	1.80	124	92.0	72.8	64.1	46.6	34.8	1.85	24.9	28.7	30.8	32.9	34.4	35.6	36.9	39.4	40.0	40.8	41.9	41.0
	1.75	142	103.1	78.9	58.0	48.2	35.8	1.80	26.1	30.5	32.6	34.9	36.5	37.8	39.1	41.8	42.9	43.7	44.7	44.0
	1.67	153	112	82.9	60.6	49.3	36.0	1.75	26.9	31.2	33.4	35.7	37.4	38.7	40.1	42.9	44.0	44.9	46.0	46.7
12TLA 60	1.80	155	115	90.9	80.2	58.2	43.5	1.85	31.1	35.9	38.5	41.1	43.0	44.5	46.1	49.3	50.1	51.1	53.7	52.0
	1.75	178	129	98.7	72.6	60.3	44.8	1.80	32.7	38.1	40.8	43.6	45.6	47.2	48.9	52.2	53.6	54.6	57.3	55.0
	1.67	192	140	104	75.8	61.6	45.0	1.75	33.7	39.1	41.8	44.7	46.8	48.4	50.1	53.6	55.0	56.1	59.0	59.9
12TLA 70	1.80	195	145	115	101	73.3	54.7	1.85	36.7	42.5	45.4	48.6	50.8	52.6	54.5	58.2	59.2	60.3	63.7	63.9
	1.75	224	162	124	84.3	75.9	56.4	1.80	41.2	45.0	48.2	51.5	53.9	55.8	57.8	61.7	63.3	64.5	68.0	65.0
	1.67	241	177	131	88.0	77.6	56.6	1.75	42.4	46.2	49.4	52.8	55.3	57.2	59.2	63.3	65.0	66.3	70.0	71.1
12TLA 80	1.80	197	146	116	102	74.1	55.3	1.85	39.5	45.7	48.9	52.3	54.7	56.7	58.7	62.7	63.7	65.0	69.2	69.4
	1.75	226	164	126	92.4	76.7	57.0	1.80	41.6	48.5	51.9	55.5	58.1	60.1	62.2	66.5	68.2	69.5	73.9	74.9
	1.67	244	179	132	96.4	78.4	57.3	1.75	42.8	49.7	53.2	56.8	59.5	61.6	63.8	68.2	70.0	71.4	76.0	77.1
12TLA 90	1.80	225	167	132	117	84.7	63.2	1.85	45.2	52.3	55.9	59.8	62.6	64.8	67.1	71.7	72.8	74.3	80.1	80.4
	1.75	259	187	144	103	87.7	65.2	1.80	47.5	55.4	59.3	63.4	66.4	68.7	71.1	76.0	77.9	79.4	85.5	77.0
	1.67	279	204	151	107	89.6	65.4	1.75	49.0	56.8	60.8	65.0	68.0	70.4	72.9	77.9	80.0	81.6	88.0	89.3
12TLA 100	1.80	253	188	149	131	95.3	71.1	1.85	50.8	58.8	62.9	67.2	70.4	72.9	75.5	80.6	81.9	83.5	91.0	91.4
	1.75	291	211	161	119	98.6	73.3	1.80	53.5	62.4	66.8	71.3	74.7	77.3	80.0	85.5	87.7	89.3	97.2	89.0
	1.67	314	230	170	124	101	73.6	1.75	55.1	63.9	68.4	73.1	76.5	79.2	82.0	87.7	90.0	91.8	100	102
12TLA 110	1.80	281	209	165	146	106	79.0	1.85	56.5	65.3	69.9	74.7	78.2	81.0	83.8	89.6	91.0	92.8	100	103
	1.75	323	234	179	132	110	81.5	1.80	59.4	69.3	74.2	79.3	83.0	85.9	88.9	95.0	97.4	99.2	107	109
	1.67	348	255	188	138	112	81.8	1.75	61.2	71.0	76.0	81.2	85.0	88.0	91.1	97.4	100	102	110	112
12TLA 120	1.80	304	226	179	157	114	85.3	1.85	61.0	70.5	75.5	80.7	84.5	87.4	90.6	96.8	98.3	100	109	110
	1.75	349	253	194	145	118	88.0	1.80	64.2	74.8	80.1	85.6	89.6	92.8	96.0	103	105	107	117	109
	1.67	376	276	204	152	121	88.3	1.75	66.1	76.7	82.1	87.7	91.8	95.0	98.4	105	108	110	120	122
12TLA 130	1.80	334	248	196	173	126	93.9	1.85	67.1	77.6	83.1	88.7	92.9	96.2	99.6	106	108	109	120	121
	1.75	384	278	213	158	130	96.8	1.80	70.6	82.3	88.1	94.2	98.6	102	106	113	116	117	128	120
	1.67	414	303	224	165	133	97.2	1.75	72.7	84.3	90.3	96.5	101	105	108	116	119	120	132	134
12TLA 150	1.80	362	269	213	188	136	102	1.85	75.2	87.0	93.1	99.5	104	108	112	119	121	124	135	135
	1.75	416	302	231	185	141	105	1.80	76.5	92.3	98.8	106	111	114	118	126	130	132	144	139
	1.67	449	329	243	193	144	105	1.75	78.8	94.6	101	108	113	117	121	130	133	136	148	150
12TLA 160	1.80	417	311	246	216	157	117	1.85	83.9	97.0	104	111	116	120	125	133	135	138	150	151
	1.75	480	348	266	208	163	121	1.80	88.2	103	110	118	123	128	132	141	145	147	160	157
	1.67	517	379	280	218	166	121	1.75	90.9	105	113	121	126	131	135	145	149	151	165	167
12TLA 175	1.80	474	353	279	246	179	133	1.85	89.5	103	111	118	124	128	133	142	144	147	160	161
	1.75	545	395	303	237	185	138	1.80	100	110	117	126	131	136	141	150	154	157	171	179
	1.67	588	431	318	248	189	138	1.75	103	112	120	129	135	139	144	154	158	162	176	179
12TLA 200	1.80	501	373	295	260	189	141	1.85	101	116	125	133	139	144	149	160	162	165	180	181
	1.75	576	417	320	237	195	145	1.80	106	123	132	141	148	153	158	169	174	177	192	179
	1.67	621	455	336	248	200	146	1.75	109	127	135	145	151	157	162	174	178	182	198	201
12TLA 220	1.80	556	414	327	289	210	156	1.85	112	129	138	148	155	160	166	177	180	184	200	201
	1.75	640	464	355	303	217	161	1.80	118	137	147	157	164	170	176	188	193	197	214	228
	1.67	690	505	373	317	222	162	1.75	121	141	150	161	168	174	180	193	198	202	220	223
12TLA 250	1.80	640	476	377	332	241	180	1.85	129	149	159	170	178	184	191	204	207	211	230	231
	1.75	736	533	409	348	250	186	1.80	135	158	169	180	189	196	202	216	222	226	246	249
	1.67	793	581	429	364	255	186	1.75	139	162	173	185	194	200	208	222	228	232	253	257
12TLA 275	1.80	691	514	407	358	260	194	1.85	139	161	172	184	192	199	206	220	224	228	249	250
	1.75	795	576	441	376	269	200	1.80	146	170	182	195	204	211	219	234	240	244	266	269
	1.67	857	627	464	393	275	201	1.75	150	175	187	200	209	216	224	240	246	251	273	277

Actual Battery Discharge Data may be +/-5% of figures shown.

CELLYTE Bloc 6-12TLA Amps Data @ 20 C.

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA AMPS @ 20 C. DISCHARGE TIME IN MINUTES 5	10	15	20	30	45	END Volts / CELL	DISCHARGE DATA AMPS @ 20 C. DISCHARGE TIME IN HOURS 1	1.5	2	3	4	5	6	8	10	12	20	24
6TLA 130	1.80	337	251	198	175	127	94.8	1.85	67.8	52.3	42.0	29.9	23.5	19.4	16.8	13.4	10.9	9.28	6.01	5.02
	1.75	388	281	215	158	131	97.8	1.80	71.3	55.4	44.5	31.7	24.9	20.6	17.8	14.2	11.7	9.92	6.42	5.42
	1.67	418	306	226	165	134	98.1	1.75	73.4	56.8	45.6	32.5	25.5	21.1	18.2	14.6	12.0	10.2	6.60	5.58
6TLA 200	1.80	506	376	298	262	191	142	1.85	102	78.4	62.9	44.8	35.2	29.1	25.2	20.2	16.4	13.9	9.01	7.54
	1.75	582	422	323	240	197	147	1.80	107	83.2	66.8	47.6	37.3	30.9	26.7	21.4	17.5	14.9	9.62	8.13
	1.67	627	459	339	251	202	147	1.75	110	85.2	68.4	48.7	38.3	31.7	27.3	21.9	18.0	15.3	9.90	8.37
6TLA 210	1.80	562	418	331	291	212	158	1.85	113	87.1	69.9	49.8	39.1	32.4	27.9	22.4	18.2	15.5	10.0	8.37
	1.75	646	468	359	264	219	163	1.80	119	92.4	74.2	52.8	41.5	34.4	29.6	23.7	19.5	16.5	10.7	9.03
	1.67	697	510	377	275	224	164	1.75	122	94.7	76.0	54.1	42.5	35.2	30.4	24.4	20.0	17.0	11.0	9.30
6TLA 230	1.80	590	439	347	306	222	166	1.85	119	91.4	73.4	52.3	41.1	34.0	29.3	23.5	19.1	16.2	10.5	8.75
	1.75	679	492	377	264	230	171	1.80	125	97.0	77.9	55.5	43.6	36.1	31.1	24.9	20.5	17.4	11.2	9.44
	1.67	732	536	396	275	235	172	1.75	129	99.4	79.8	56.8	44.6	37.0	31.9	25.6	21.0	17.9	11.5	9.73
12TLA 15	1.80	45.5	33.9	26.8	23.6	17.2	12.8	1.85	8.55	7.05	5.66	4.03	3.17	2.62	2.26	1.81	1.47	1.25	0.82	0.70
	1.75	52.4	37.9	29.1	23.7	17.8	13.2	1.80	9.63	7.48	6.01	4.28	3.36	2.78	2.40	1.92	1.58	1.34	0.87	0.75
	1.67	56.5	41.3	30.5	24.8	18.1	13.2	1.75	9.91	7.67	6.16	4.38	3.44	2.85	2.46	1.97	1.62	1.38	0.90	0.76
12TLA 20	1.80	64.1	47.7	37.7	33.2	24.1	18.0	1.85	12.9	9.93	7.97	5.68	4.46	3.69	3.19	2.55	2.07	1.76	1.09	0.91
	1.75	73.7	53.4	40.9	31.7	25.0	18.6	1.80	13.5	10.5	8.46	6.02	4.73	3.92	3.38	2.71	2.22	1.89	1.17	1.00
	1.67	79.5	58.2	43.0	33.1	25.5	18.6	1.75	14.0	10.8	8.66	6.17	4.85	4.01	3.46	2.78	2.28	1.94	1.20	1.02
12TLA 25	1.80	73.1	54.4	43.0	37.9	27.5	20.5	1.85	14.7	11.3	9.09	6.47	5.08	4.21	3.63	2.91	2.37	2.01	1.27	1.07
	1.75	84.0	60.9	46.6	34.3	28.5	21.2	1.80	15.4	12.0	9.64	6.87	5.39	4.47	3.85	3.09	2.53	2.15	1.36	1.08
	1.67	90.6	66.3	49.0	35.8	29.1	21.3	1.75	15.9	12.3	9.88	7.04	5.53	4.58	3.95	3.17	2.60	2.21	1.40	1.18
12TLA 35	1.80	89.9	66.9	52.9	46.6	33.9	25.3	1.85	18.1	13.9	11.2	7.97	6.26	5.18	4.47	3.58	2.91	2.48	1.55	1.29
	1.75	103	75.0	57.4	43.5	35.1	26.1	1.80	19.0	14.8	11.9	8.45	6.64	5.50	4.74	3.80	3.12	2.65	1.65	1.38
	1.67	112	81.6	60.3	45.5	35.8	26.2	1.75	19.6	15.1	12.2	8.66	6.80	5.63	4.86	3.90	3.20	2.72	1.70	1.44
12TLA 40	1.80	110	81.8	64.7	57.0	41.4	30.9	1.85	22.1	17.0	13.7	9.74	7.65	6.33	5.47	4.38	3.56	3.03	1.86	1.52
	1.75	126	91.6	70.2	51.6	42.9	31.9	1.80	23.2	18.1	14.5	10.33	8.11	6.72	5.80	4.64	3.81	3.23	1.99	1.63
	1.67	136	99.8	73.7	53.9	43.8	32.0	1.75	23.9	18.5	14.9	10.6	8.31	6.88	5.94	4.76	3.91	3.32	2.04	1.73
12TLA 45	1.80	124	92.0	72.8	64.1	46.6	34.8	1.85	24.9	19.2	15.4	11.0	8.60	7.12	6.15	4.93	4.00	3.40	2.09	1.71
	1.75	142	103.1	78.9	58.0	48.2	35.8	1.80	26.1	20.3	16.3	11.6	9.13	7.56	6.52	5.22	4.29	3.64	2.24	1.83
	1.67	153	112	82.9	60.6	49.3	36.0	1.75	26.9	20.8	16.7	11.9	9.35	7.74	6.68	5.36	4.40	3.74	2.30	1.95
12TLA 60	1.80	155	115	90.9	80.2	58.2	43.5	1.85	31.1	24.0	19.2	13.7	10.8	8.91	7.69	6.16	5.01	4.25	2.68	2.17
	1.75	178	129	98.7	72.6	60.3	44.8	1.80	32.7	25.4	20.4	14.5	11.4	9.45	8.15	6.53	5.36	4.55	2.87	2.29
	1.67	192	140	104	75.8	61.6	45.0	1.75	33.7	26.0	20.9	14.9	11.7	9.68	8.35	6.70	5.50	4.68	2.95	2.50
12TLA 70	1.80	195	145	115	101	73.3	54.7	1.85	36.7	28.3	22.7	16.2	12.7	10.5	9.08	7.28	5.92	5.03	3.19	2.66
	1.75	224	162	124	84.3	75.9	56.4	1.80	41.2	30.0	24.1	17.2	13.5	11.2	9.63	7.72	6.33	5.38	3.40	2.71
	1.67	241	177	131	88.0	77.6	56.6	1.75	42.4	30.8	24.7	17.6	13.8	11.4	9.87	7.91	6.50	5.53	3.50	2.96
12TLA 80	1.80	197	146	116	102	74.1	55.3	1.85	39.5	30.5	24.5	17.4	13.7	11.3	9.78	7.84	6.37	5.41	3.46	2.89
	1.75	226	164	126	92.4	76.7	57.0	1.80	41.6	32.3	26.0	18.5	14.5	12.0	10.4	8.31	6.82	5.79	3.69	3.12
	1.67	244	179	132	96.4	78.4	57.3	1.75	42.8	33.1	26.6	18.9	14.9	12.3	10.6	8.52	7.00	5.95	3.80	3.21
12TLA 90	1.80	225	167	132	117	84.7	63.2	1.85	45.2	34.8	28.0	19.9	15.6	13.0	11.2	8.96	7.28	6.19	4.00	3.35
	1.75	259	187	144	103	87.7	65.2	1.80	47.5	37.0	29.7	21.1	16.6	13.7	11.9	9.50	7.79	6.62	4.28	3.21
	1.67	279	204	151	107	89.6	65.4	1.75	49.0	37.9	30.4	21.7	17.0	14.1	12.2	9.74	8.00	6.80	4.40	3.72
12TLA 100	1.80	253	188	149	131	95.3	71.1	1.85	50.8	39.2	31.5	22.4	17.6	14.6	12.6	10.1	8.19	6.96	4.55	3.81
	1.75	291	211	161	119	98.6	73.3	1.80	53.5	41.6	33.4	23.8	18.7	15.5	13.3	10.7	8.77	7.44	4.86	3.71
	1.67	314	230	170	124	101	73.6	1.75	55.1	42.6	34.2	24.4	19.1	15.8	13.7	11.0	9.00	7.65	5.00	4.23
12TLA 110	1.80	281	209	165	146	106	79.0	1.85	56.5	43.5	35.0	24.9	19.6	16.2	14.0	11.2	9.10	7.74	5.01	4.29
	1.75	323	234	179	132	110	81.5	1.80	59.4	46.2	37.1	26.4	20.7	17.2	14.8	11.9	9.74	8.27	5.35	4.54
	1.67	348	255	188	138	112	81.8	1.75	61.2	47.3	38.0	27.1	21.3	17.6	15.2	12.2	10.0	8.50	5.50	4.65
12TLA 120	1.80	304	226	179	157	114	85.3	1.85	61.0	47.0	37.8	26.9	21.1	17.5	15.1	12.1	9.83	8.35	5.46	4.57
	1.75	349	253	194	145	118	88.0	1.80	64.2	49.9	40.1	28.5	22.4	18.6	16.0	12.8	10.5	8.93	5.83	4.54
	1.67	376	276	204	152	121	88.3	1.75	66.1	51.1	41.0	29.2	23.0	19.0	16.4	13.1	10.8	9.18	6.00	5.08
12TLA 130	1.80	334	248	196	173	126	93.9	1.85	67.1	51.7	41.5	29.6	23.2	19.2	16.6	13.3	10.8	9.10	6.01	5.02
	1.75	384	278	213	158	130	96.8	1.80	70.6	54.9	44.1	31.4	24.6	20.4	17.6	14.1	11.6	9.73	6.42	5.00
	1.67	414	303	224	165	133	97.2	1.75	72.7	56.2	45.1	32.2	25.2	20.9	18.0	14.5	11.9	10.0	6.60	5.58
12TLA 150	1.80	362	269	213	188	136	102	1.85	75.2	58.0	46.6	33.2	26.0	21.6	18.6	14.9	12.1	10.3	6.73	5.63
	1.75	416	302	231	185	141	105	1.80	76.5	61.5	49.4	35.2	27.6	22.9	19.7	15.8	13.0	11.0	7.19	5.79
	1.67	449	329	243	193	144	105	1.75	78.8	63.0	50.6	36.1	28.3	23.4	20.2	16.2	13.3	11.3	7.40	6.26
12TLA 160	1.80	417	311	246	216	157	117	1.85	83.9	64.7	51.9	37.0	29.0	24.0	20.8	16.6	13.5	11.5	7.51	6.28
	1.75	480	348	266	208	163	121	1.80	88.2	68.6	55.1	39.2	30.8	25.5	22.0	17.6	14.5	12.3	8.02	6.54
	1.67	517	379	280	218	166	121	1.75	90.9	70.3	56.4	40.2	31.6	26.1	22.6	18.1	14.9	12.6	8.25	6.98
12TLA 175	1.80	474	353	279	246	179	133	1.85	89.5	69.0	55.4	39.4	31.0	25.6	22.1	17.7	14.4	12.3	8.01	6.70
	1.75	545	395	303	237	185	138	1.80	100	73.2	58.7	41.8	32.9	27.2	23.5	18.8	15.4	13.1	8.55	7.46
	1.67	588	431	318	248	189	138	1.75	103	75.0	60.2	42.9	33.7	27.9	24.1	19.3	15.8	13.5	8.80	7.44
12TLA 200	1.80	501	373	295	260	189	141	1.85	101	77.6	62.3	44.4	34.8	28.9	24.9	20.0	16.2	13.8	9.01	7.54
	1.75	576	417	320	237	195	145	1.80	106	82.3	66.1	47.1	37.0	30.6	26.4	21.2	17.4	14.7	9.62	7.46
	1.67	621	455	336	248	200	146	1.75	109	84.3	67.7	48.2	37.9	31.4	27.1	21.7	17.8	15.1	9.90	8.37
12TLA 220	1.80	556	414	327	289	210	156	1.85	112	86.2	69.2	49.3	38.7	32.1	27.7	22.2	18.0	15.3	10.0	8.37
	1.75	640	464	355	303	217	161	1.80	118	91.5	73.4	52.3	41.1	34.0	29.3	23.5	19.3	16.4	10.7	9.50
	1.67	690	505	373	317	222	162	1.75	121	93.7	75.2	53.6	42.1	34.8	30.1	24.1	19.8	16.8	11.0	9.30
12TLA 250	1.80	640	476	377	332	241	180	1.85	129	99.2	79.6	56.7	44.5	36.9	31.8	25.5	20.7	17.6	11.5	9.6
	1.75	736	533	409	348	250	186	1.80	135	105	84.4	60.2	47.2	39.1	33.7	27.0	22.2	18.8	12.3	10.4
	1.67	793	581	429	364	255	186	1.75	139	108	86.5	61.6	48.4	40.1	34.6	27.7	22.8	19.4	12.7	10.7
12TLA 275	1.80	691	514	407	358	260	194	1.85	139	107.1	86.0	61.2	48.1	39.8	34.4	27.5	22.4	19.0	12.4	10.4
	1.75	795	576	441	376	269	200	1.80	146	114	91.2	65.0	51.0	42.2	36.4	29.2	24.0	20.3	13.3	11.2
	1.67	857	627	464	393	275	201	1.75	150	116	93.4	66.6	52.3	43.3	37.4	29.9	24.6	20.9	13.7	11.6

Actual Battery Discharge Data may be +/-5% of figures shown.

CELLYTE Bloc 6-12TLA Watts per Cell @ 20 C.

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA WPC @ 20 C. DISCHARGE TIME IN MINUTES 5	10	15	20	30	45	END Volts / CELL	DISCHARGE DATA Watts Per Cell @ 20 C. DISCHARGE TIME IN HOURS 1	1.5	2	3	4	5	6	8	10	12	20	24
6TLA 130	1.80	573	457	365	324	238	180	1.85	130	101	81.1	58.2	46.0	38.3	33.2	26.7	21.8	18.6	12.0	10.1
	1.75	642	507	403	349	251	188	1.80	133	106	85.5	61.4	48.5	40.4	35.0	28.2	23.0	19.7	12.8	10.8
	1.67	719	563	446	377	264	197	1.75	134	108	87.6	62.7	49.5	41.2	35.6	28.6	23.5	20.1	13.1	11.1
6TLA 200	1.80	860	685	548	485	356	270	1.85	195	151	122	87.4	69.0	57.4	49.7	40.1	32.7	27.8	18.1	15.1
	1.75	963	760	605	524	376	282	1.80	200	159	128	92.1	72.8	60.6	52.5	42.2	34.5	29.6	19.2	16.3
	1.67	1079	844	669	566	397	295	1.75	201	162	131	94.0	74.2	61.8	53.4	43.0	35.3	30.1	19.6	16.6
6TLA 210	1.80	955	761	608	539	396	300	1.85	217	168	135	97.1	76.7	63.8	55.3	44.5	36.3	30.9	20.1	16.8
	1.75	1070	845	672	582	418	314	1.80	222	176	142	102	80.9	67.3	58.4	46.9	38.4	32.9	21.3	18.1
	1.67	1199	938	743	629	441	328	1.75	224	180	146	104	82.5	68.6	59.4	47.7	39.2	33.5	21.8	18.4
6TLA 230	1.80	1003	799	639	566	416	315	1.85	228	176	142	102	80.5	67.0	58.0	46.7	38.1	32.5	21.0	17.6
	1.75	1124	887	706	612	439	329	1.80	233	185	150	107	84.9	70.7	61.3	49.3	40.3	34.5	22.3	18.9
	1.67	1259	985	780	660	463	344	1.75	235	189	153	110	86.6	72.1	62.4	50.1	41.2	35.2	22.7	19.3
12TLA 15	1.80	77.4	61.7	49.3	43.7	32.1	24.3	1.85	16.4	13.6	10.9	7.86	6.21	5.17	4.48	3.61	2.94	2.50	1.64	1.41
	1.75	86.7	68.4	54.5	47.2	33.8	25.4	1.80	16.8	14.3	11.5	8.29	6.55	5.45	4.73	3.80	3.11	2.66	1.74	1.50
	1.67	97.1	76.0	60.2	50.9	35.7	26.6	1.75	16.9	14.6	11.8	8.46	6.68	5.56	4.81	3.87	3.18	2.71	1.78	1.51
12TLA 20	1.80	109	86.8	69.4	61.5	45.1	34.2	1.85	24.7	19.1	15.4	11.1	8.75	7.27	6.30	5.07	4.14	3.53	2.19	1.83
	1.75	122	96.3	76.7	66.4	47.6	35.8	1.80	25.3	20.1	16.2	11.7	9.22	7.67	6.65	5.35	4.37	3.75	2.33	2.00
	1.67	137	107	84.7	71.7	50.2	37.4	1.75	25.5	20.5	16.6	11.9	9.40	7.82	6.77	5.44	4.47	3.82	2.37	2.01
12TLA 25	1.80	124	99.0	79.1	70.1	51.5	39.0	1.85	28.2	21.8	17.6	12.6	10.0	8.29	7.18	5.79	4.72	4.02	2.55	2.14
	1.75	139	110	87.4	75.7	54.3	40.8	1.80	28.9	22.9	18.5	13.3	10.5	8.75	7.59	6.10	4.99	4.28	2.71	2.17
	1.67	156	122	96.6	81.8	57.3	42.6	1.75	29.1	23.4	19.0	13.6	10.7	8.92	7.72	6.20	5.10	4.35	2.77	2.34
12TLA 35	1.80	153	122	97.4	86.3	63.4	48.0	1.85	34.7	26.8	21.6	15.5	12.3	10.2	8.84	7.12	5.81	4.95	3.10	2.60
	1.75	171	135	108	93.2	66.8	50.2	1.80	35.6	28.2	22.8	16.4	12.9	10.8	9.34	7.51	6.14	5.26	3.29	2.75
	1.67	192	150	119	101	70.5	52.5	1.75	35.8	28.8	23.3	16.7	13.2	11.0	9.50	7.64	6.27	5.36	3.36	2.85
12TLA 40	1.80	187	149	119	105	77.4	58.7	1.85	42.4	32.8	26.4	19.0	15.0	12.5	10.8	8.70	7.10	6.05	3.73	3.05
	1.75	209	165	131	114	81.7	61.4	1.80	43.5	34.5	27.9	20.0	15.8	13.2	11.4	9.18	7.50	6.43	3.96	3.26
	1.67	234	183	145	123	86.2	64.1	1.75	43.8	35.2	28.5	20.4	16.1	13.4	11.6	9.33	7.67	6.55	4.04	3.42
12TLA 45	1.80	210	167	134	119	87.1	66.1	1.85	47.7	36.9	29.7	21.4	16.9	14.0	12.2	9.79	7.98	6.80	4.19	3.43
	1.75	235	186	148	128	91.9	69.0	1.80	48.9	38.8	31.3	22.5	17.8	14.8	12.8	10.33	8.44	7.24	4.46	3.67
	1.67	264	206	163	138	97.0	72.1	1.75	49.3	39.6	32.1	23.0	18.1	15.1	13.1	10.5	8.62	7.37	4.55	3.85
12TLA 60	1.80	263	209	167	148	109	82.6	1.85	59.7	46.1	37.2	26.7	21.1	17.5	15.2	12.2	9.98	8.50	5.38	4.35
	1.75	294	232	185	160	115	86.3	1.80	61.1	48.5	39.2	28.1	22.2	18.5	16.0	12.9	10.6	9.05	5.72	4.58
	1.67	330	258	204	173	121	90.2	1.75	61.6	49.5	40.1	28.7	22.7	18.9	16.3	13.1	10.8	9.21	5.84	4.94
12TLA 70	1.80	331	264	211	187	137	104	1.85	70.5	54.5	43.9	31.5	24.9	20.7	18.0	14.5	11.8	10.1	6.38	5.35
	1.75	371	293	233	202	145	109	1.80	72.3	57.3	46.3	33.3	26.3	21.9	19.0	15.3	12.5	10.7	6.78	5.42
	1.67	415	325	257	218	153	114	1.75	72.8	58.5	47.4	34.0	26.8	22.3	19.3	15.5	12.7	10.9	6.92	5.86
12TLA 80	1.80	334	266	213	189	139	105	1.85	75.9	58.6	47.3	34.0	26.8	22.3	19.3	15.6	12.7	10.8	6.93	5.81
	1.75	375	296	235	204	146	110	1.80	77.8	61.7	49.8	35.8	28.3	23.6	20.4	16.4	13.4	11.5	7.37	6.24
	1.67	420	328	260	220	154	115	1.75	78.4	63.0	51.1	36.6	28.9	24.0	20.8	16.7	13.7	11.7	7.52	6.36
12TLA 90	1.80	382	305	243	216	158	120	1.85	86.8	67.0	54.1	38.8	30.7	25.5	22.1	17.8	14.5	12.4	8.02	6.72
	1.75	428	338	269	233	167	126	1.80	88.9	70.6	57.0	40.9	32.4	26.9	23.3	18.8	15.4	13.2	8.53	6.42
	1.67	479	375	297	252	176	131	1.75	89.5	71.9	58.4	41.8	33.0	27.5	23.8	19.1	15.7	13.4	8.70	7.37
12TLA 100	1.80	430	343	274	243	178	135	1.85	97.6	75.4	60.8	43.7	34.5	28.7	24.9	20.0	16.3	13.9	9.12	7.64
	1.75	482	380	303	262	188	141	1.80	100	79.4	64.1	46.1	36.4	30.3	26.3	21.1	17.3	14.8	9.69	7.42
	1.67	539	422	334	283	198	148	1.75	101	80.9	65.7	47.0	37.1	30.9	26.7	21.5	17.6	15.1	9.89	8.37
12TLA 110	1.80	478	381	304	270	198	150	1.85	108	83.8	67.6	48.5	38.4	31.9	27.6	22.3	18.1	15.5	10.0	8.61
	1.75	535	422	336	291	209	157	1.80	111	88.2	71.2	51.2	40.4	33.7	29.2	23.5	19.2	16.5	10.7	9.08
	1.67	599	469	371	314	220	164	1.75	112	89.9	73.0	52.2	41.2	34.3	29.7	23.9	19.6	16.7	10.9	9.21
12TLA 120	1.80	516	411	329	291	214	162	1.85	117	90.5	73.0	52.4	41.4	34.5	29.8	24.0	19.6	16.7	10.9	9.17
	1.75	578	456	363	314	226	169	1.80	120	95.2	76.9	55.3	43.7	36.3	31.5	25.3	20.7	17.8	11.6	9.08
	1.67	647	506	401	340	238	177	1.75	121	97.1	78.8	56.4	44.5	37.1	32.1	25.8	21.2	18.1	11.9	10.0
12TLA 130	1.80	568	452	361	320	235	178	1.85	129	99.5	80.3	57.7	45.6	37.9	32.8	26.4	21.6	18.2	12.0	10.1
	1.75	636	502	399	346	248	186	1.80	132	105	84.6	60.8	48.0	40.0	34.7	27.9	22.8	19.4	12.8	10.0
	1.67	712	557	441	374	262	195	1.75	133	107	86.7	62.1	49.0	40.8	35.3	28.3	23.3	19.7	13.1	11.1
12TLA 150	1.80	615	490	392	347	255	193	1.85	144	112	90.0	64.6	51.1	42.5	36.8	29.6	24.2	20.6	13.5	11.3
	1.75	689	544	433	375	269	202	1.80	148	117	94.9	68.2	53.9	44.8	38.9	31.3	25.6	21.9	14.3	11.6
	1.67	772	604	479	405	284	211	1.75	149	120	97.2	69.6	54.9	45.7	39.6	31.8	26.1	22.3	14.6	12.4
12TLA 160	1.80	709	565	452	400	294	223	1.85	161	124	100	72.1	57.0	47.4	41.0	33.1	26.9	23.0	15.0	12.6
	1.75	795	627	499	432	310	233	1.80	165	131	106	76.0	60.1	50.0	43.3	34.9	28.5	24.4	16.0	13.1
	1.67	890	696	552	467	327	243	1.75	166	134	108	77.6	61.2	51.0	44.1	35.4	29.1	24.9	16.3	13.8
12TLA 175	1.80	806	642	514	455	334	253	1.85	172	133	107	76.9	60.8	50.5	43.8	35.3	28.7	24.5	16.0	13.4
	1.75	903	713	567	491	353	265	1.80	176	140	113	81.1	64.1	53.3	46.2	37.2	30.4	26.1	17.1	14.9
	1.67	1012	792	627	531	372	277	1.75	177	142	116	82.7	65.3	54.4	47.0	37.8	31.0	26.5	17.4	14.7
12TLA 200	1.80	851	678	542	480	353	268	1.85	193	149	120	86.5	68.4	56.8	49.2	39.7	32.3	27.6	18.1	15.1
	1.75	954	753	599	519	372	280	1.80	198	157	127	91.2	72.1	60.0	52.0	41.8	34.2	29.3	19.2	14.9
	1.67	1068	836	662	560	393	292	1.75	199	160	130	93.1	73.5	61.2	52.9	42.5	34.9	29.8	19.6	16.6
12TLA 220	1.80	946	754	602	534	392	297	1.85	215	166	134	96.1	75.9	63.2	54.7	44.1	35.9	30.6	20.1	16.8
	1.75	1059	837	666	577	414	311	1.80	220	175	141	101	80.1	66.6	57.8	46.5	38.0	32.6	21.3	19.0
	1.67	1187	929	736	623	436	325	1.75	222	178	144	103	81.6	68.0	58.8	47.2	38.8	33.2	21.8	18.4
12TLA 250	1.80	1088	867	693	614	451	342	1.85	247	191	154	111	87.3	72.6	62.9	50.7	41.3	35.2	23.1	19.3
	1.75	1218	962	765	663	476	357	1.80	253	201	162	117	92.1	76.6	66.4	53.4	43.7	37.5	24.5	20.8
	1.67	1365	1068	846	716	502	373	1.75	255	205	166	119	93.9	78.1	67.6	54.3	44.6	38.1	25.0	21.2
12TLA 275	1.80	1175	936	748	663	487	369	1.85	267	206	166	119	94.3	78.4	67.9	54.7	44.6	38.0	24.9	20.9
	1.75	1316	1039	827	716	514	386	1.80	273	217	175	126	99.5	82.8	71.8	57.7	47.2	40.5	26.5	22.4
	1.67	1474	1153	914	773	542	403	1.75	275	221	179	128	101	84.4	73.0	58.7	48.2	41.2	27.0	22.9

Actual Battery Discharge Data may be +/-5% of figures shown.

CELLYTE 6-12TLA Bloc Data & Dimensions

SEC Battery Type	Capacity C/20 1.75 vpc	CCA at -18 C 0 F.	CCA at 0 C. 32 F.	Short Circuit Amps	Internal Resistance m Ohms	Female Terminal Type	Battery Weight Approx. KG	lbs	Overall Battery Dimensions Length Inch	mm	Width Inch	mm	Height Inch	mm
6TLA 130	130	760	1010	3200	3.0	FT 4	17.0	37.4	7.72	196	6.69	170	8.43	214
6TLA 200	198	980	1290	4600	2.4	FT 5	28.7	63.1	12.0	306	6.61	168	9.06	230
6 TLA 210	220	1200	1600	5000	2.3	FT 5	30.2	66.4	12.7	323	7.01	178	9.06	230
6 TLA 230	230	1300	1740	5500	2.2	FT 5	33.0	72.6	9.57	243	7.40	188	10.8	275
12TLA 15	18	125	155	650	14	FT 2	5.40	11.9	7.09	180	5.16	76.0	6.57	167
12TLA 20	24	165	205	940	12	FT 3	8.00	17.6	6.93	176	6.54	166	4.96	126
12TLA 25	28	200	165	1220	8.2	FT 3	8.10	17.8	6.50	165	4.92	125	6.93	176
12TLA 35	34	240	320	1500	7.3	FT 3	10.5	23.1	7.72	196	5.16	131	6.30	160
12TLA 40	40	250	330	1600	6.7	FT 3	13.3	29.3	7.72	196	6.54	166	6.69	170
12TLA 45	46	260	350	1700	6.0	FT 3	14.5	31.9	7.72	196	6.54	166	6.69	170
12 TLA 60	59	280	380	1900	5.6	FT 3	18.6	40.9	9.06	230	5.43	138	8.27	210
12 TLA 70	71	330	450	2000	5.5	FT 3	21.3	46.9	13.8	350	6.57	167	7.05	179
12TLA 80	77	410	550	2100	5.4	FT 3	22.0	48.4	10.2	259	6.65	169	8.46	215
12TLA 90	88	460	620	2400	4.5	FT 3	24.0	52.8	10.2	259	6.65	169	8.46	215
12TLA 100	100	510	680	2650	4.3	FT 4	26.8	59.0	12.1	307	6.69	170	8.46	215
12TLA 110	110	580	780	2900	3.9	FT 4	30.5	67.1	12.9	328	6.77	172	8.46	215
12TLA 120	121	710	960	3000	3.4	FT 4	31.2	68.6	12.9	328	6.77	172	8.46	215
12TLA 130	132	760	1020	3300	3.1	FT 4	36.0	79.2	13.5	342	6.81	173	11.22	285
12TLA 150	148	970	1300	4200	2.9	FT 5	42.5	93.5	13.5	342	6.81	173	11.2	285
12TLA 160	165	1060	1370	4500	2.8	FT 5	44.5	98	19.0	483	6.69	170	9.65	245
12TLA 175	176	1060	1370	4500	2.6	FT 5	53.4	117	20.9	530	8.23	209	8.86	225
12TLA 200	198	1100	1440	4700	2.3	FT 5	56.3	124	20.9	530	8.23	209	8.86	225
12TLA 220	220	1240	1670	5400	2.2	FT 5	61.5	135	20.6	522	9.45	240	8.86	225
12TLA 250	253	1460	1951	6157	2.0	FT 5	66.0	145	20.6	522	10.59	269	8.66	220
12TLA 275	275	1600	2150	6700	1.9	FT 5	76.0	167	20.6	522	10.59	269	8.86	225

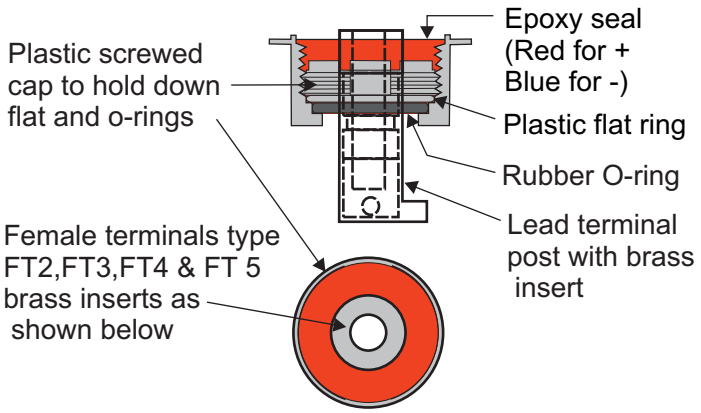
Actual Battery Data may be changed from the figures shown.

NOTE:-

SEC Battery Types *12TLA 55, *12TLA 80 and *12TLA 100 have a central manifold gassing systems, which incorporates a sintered PP flame-arrestor membrane so that they can be used in enclosed cabinets, and any gases vented and dispersed safely to the outside environment. With the V-0 cover and case material batteries comply with BS 6290 Part 4.

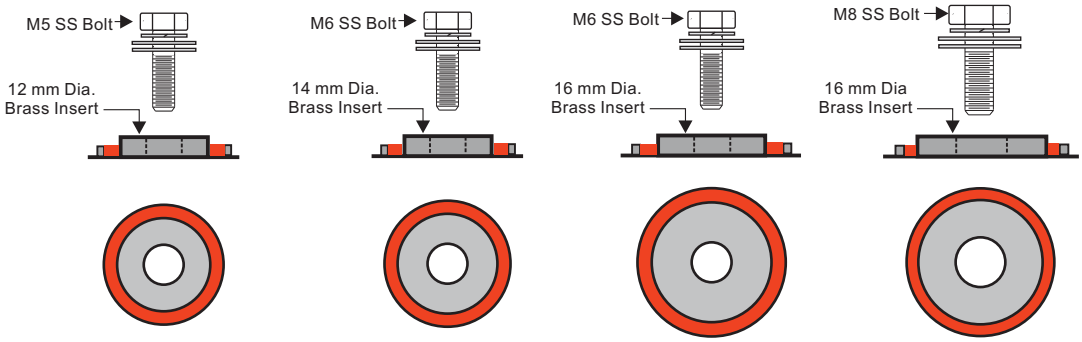
Applicable Standards

UL Component approval
BS 6290 Part 4
Eurobat
IEC 60896-21/22-2004
(Testing in progress)



TYPICAL TRIPLE SEAL DETAIL

FEMALE TERMINAL (FT) DETAILS



12 mm ∅ Brass Insert Terminal for M5 Bolt **TYPE FT 2**

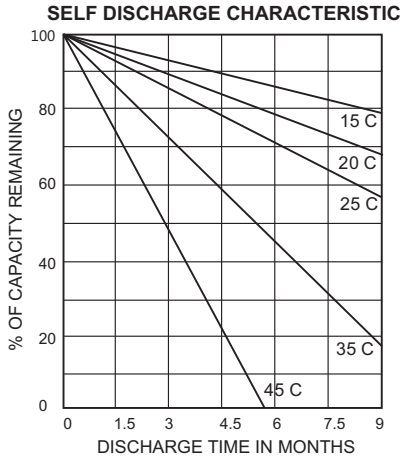
14 mm ∅ Brass Insert Terminal for M6 Bolt **TYPE FT 3**

16 mm ∅ Brass Insert Terminal for M6 Bolt **TYPE FT 4**

16 mm ∅ Brass Insert Terminal for M8 Bolt **TYPE FT 5**

Constant Voltage Charging.

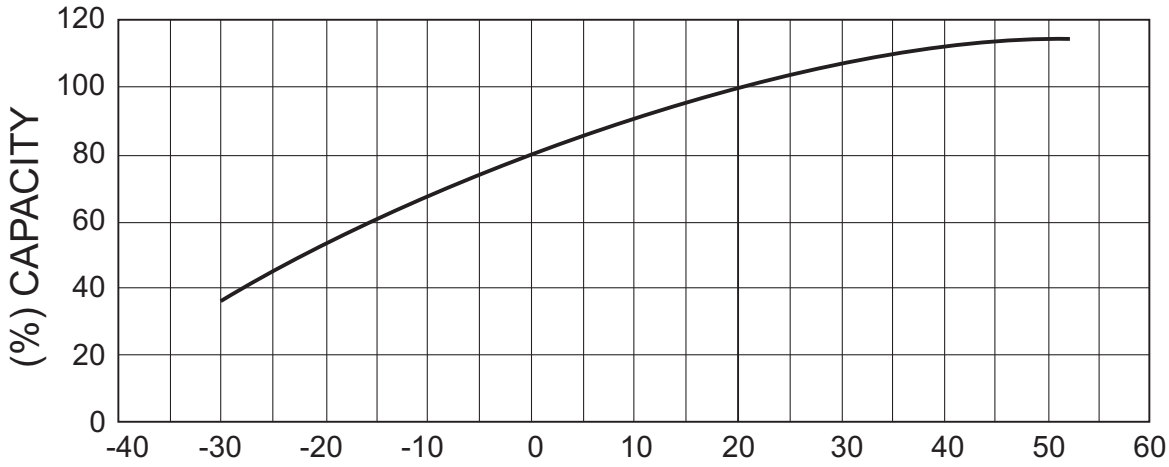
It is recommended to use Constant Voltage method of charging for Valve Regulated lead acid (VRLA) batteries. Charging voltages must be regularly checked and to optimize the battery performance it is necessary to ensure that the voltage is kept within the following limits.



Float Service 2.25 ± 1% Volts Per Cell at 20/25 Deg C.
Cycle Service 2.35 ± 1%Volts Per Cell at 20/25 Deg C.

Temperature Effects.

Temperature affects the battery in a number of different ways. The battery will operate in extreme temperature ranges from below Zero to over 40 Deg C. However the Valve Regulated (VRLA) Battery nominal capacity, and optimum performance are based on operating temperature of 20 Deg C.
Above this temperature the Battery capacity will increase slightly, however the life will decrease at the higher temperature.
When designing your battery system the different discharge and recharge performance at different temperature should be taken into account, details of both listed below.



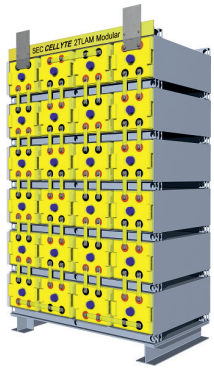
Note:- 100% Capacity at 20C

Battery Float Charging (Temperature compensation)	
Temperature Deg.C	Float Charge Volts/Cell
5	2.31
10	2.29
15	2.27
20	2.25
25	2.25
30	2.23
35	2.21

Temperature Compensation is the process whereby the charge voltage is changed as a function of the battery temperature.

For higher or lower temperatures outside the table range use temperature correction factor of 0.004 ± 0.01 per volt/per/cell/deg.C

SEC Industrial Bettery 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

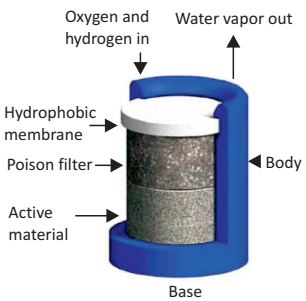
MICROLYTE +Plus Range

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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