SEALED VRLA MONOBLOC BATTERIES

CAPACITIES : 15 Ah. to 250 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 10 years at 20°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	321	245	193	175	125	93.4	1.85	67.8	78.4	83.9	89.6	93.8	97.2	101	108	109	111	120	121
	1.75	369	274	210	156	139	96.3	1.80	71.3	83.3	89.0	96.1	100	103	107	114	117	119	128	130
	1.67	396	298	220	185	132	96.7	1.75	73.4	85.2	91.2	97.4	102	106	109	117	120	122	132	134
6TLA 150	1.80	353	271	218	189	137	103	1.85	78.3	88.2	94.4	101	106	109	113	121	123	125	137	137
	1.75	406	303	237	198	142	106	1.80	78.9	93.5	100	107	112	116	120	126	131	134	146	148
	1.67	438	330	249	207	145	106	1.75	81.3	95.9	103	110	116	119	123	131	135	138	150	152
6TLA 200	1.80	452	351	278	245	178	135	1.85	102	118	126	134	141	146	151	161	164	167	180	181
	1.75	520	394	301	240	184	139	1.80	105	125	134	143	148	155	160	171	175	179	192	196
	1.67	561	429	317	251	186	139	1.75	108	128	137	146	153	158	164	175	180	184	198	201
6TLA 210	1.80	503	380	309	272	198	150	1.85	113	131	140	149	156	162	168	179	182	186	200	201
	1.75	578	437	335	264	204	154	1.80	117	139	148	159	166	172	178	190	195	198	214	217
	1.67	623	476	352	275	209	155	1.75	120	142	152	162	170	176	182	195	200	204	220	223
6TLA 230	1.80	519	403	319	281	204	154	1.85	116	137	147	157	164	170	176	186	191	195	209	210
	1.75	597	451	346	264	211	159	1.80	121	146	156	166	174	180	187	199	205	208	224	227
	1.67	643	492	363	275	216	160	1.75	124	149	160	171	179	185	191	205	210	214	230	235
12TLA 15	1.80	45.6	33.9	26.8	23.6	17.2	12.8	1.85	8.65	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	9.63	11.2	12.0	12.8	13.4	13.8	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	9.91	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	12.6	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	19.5	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	28.0
	1.67	90.6	66.3	48.0	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 45	1.80	118	87.8	69.4	61.2	44.5	33.2	1.85	23.7	27.4	29.4	31.4	32.8	34.0	35.2	37.6	38.2	39.0	41.8	41.0
	1.75	136	98.4	75.3	58.0	46.0	34.2	1.80	25.0	29.1	31.2	33.3	34.8	36.1	37.3	39.9	40.9	41.7	44.7	44.0
	1.67	146	107	79.2	60.6	47.0	34.4	1.75	25.7	29.8	31.9	34.1	35.7	37.0	38.3	40.9	42.0	42.8	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	183	136	107	95	68.8	51.4	1.85	36.7	42.5	45.4	48.6	50.8	52.8	54.5	58.2	59.2	60.3	63.7	63.9
	1.75	210	152	117	84.3	71.2	53.0	1.80	38.8	45.0	48.2	51.5	53.9	55.8	57.8	61.7	63.3	64.5	68.0	65.0
	1.67	227	166	123	88.0	72.8	53.2	1.75	39.8	46.2	49.4	52.6	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	68.2	68.4
	1.75	226	164	126	92.4	76.7	57.0	1.80	41.8	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	98.4	78.4	57.3	1.75	42.8	49.7	53.2	56.6	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	45.3	52.3	55.9	59.6	62.6	64.8	67.1	71.7	72.8	74.2	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	48.9	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	263	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	81.8	83.5	91.0	91.4
	1.75	291	211	161	119	98.6	75.3	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	56.6	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	81.6	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	84.7	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	119	87.3	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	87.7	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	315	240	190	172	123	91.6	1.85	66.6	77.0	82.4	88.1	92.2	95.5	99.9	106	107	109	119	120
	1.75	363	269	206	156	127	94.6	1.80	70.0	81.7	87.5	93.4	97.8	101	105	112	115	117	127	120
	1.67	391	293	216	165	130	96.0	1.75	72.2	83.7	89.6	95.7	100	104	107	115	118	120	131	133
12TLA 150	1.80	341	261	211	182	132	98.6	1.85	74.7	86.4	92.5	98.6	103	107	111	119	120	123	134	134
	1.75	392	292	228	165	137	102	1.80	76.0	91.7	98.1	105	110	114	118	126	128	131	143	139
	1.67	422	318	240	183	140	102	1.75	76.3	93.9	101	107	112	116	121	129	132	135	147	149
12TLA 160	1.80	376	287	233	200	147	110	1.85	82.9	95.8	103	110	115	119	123	131	133	136	148	149
	1.75	432	321	253	208	152	113	1.80	84.3	102	109	116	122	126	130	139	143	146	158	157
	1.67	466	350	280	218	155	113	1.75	86.8	104	111	119	125	129	134	143	147	150	163	165
12TLA 175	1.80	385	297	235	207	150	114	1.85	89.0	103	110	116	123	128	132	141	143	146	159	160
	1.75	440	333	255	237	156	117	1.80	89.0	109	117	125	131	135	140	150	152	156	170	179
	1.67	474	363	288	248	159	118	1.75	91.6	112	120	128	134	139	144	153	156	161	175	176
12TLA 200	1.80	433	336	286	235	170	129	1.85	101	116	125	133	139	144	149	160	162	165	180	181
	1.75	498	377	288	237	176	133	1.80	101	123	132	141	148	153	158	169	174	177	192	179
	1.67	537	410	303	248	180	133	1.75	104	127	135	145	151	157	162	174	176	182	198	201
12TLA 220	1.80	481	374	295	261	189	143	1.85	112	129	138	148	155	160	166	177	180	184	200	201
	1.75	553	418	320	303	196	148	1.80	112	137	147	157	164	170	176	186	193	197	214	228
	1.67	596	456	337	317	200	148	1.75	115	141	150	161	168	174	180	193	198	202	220	223
12TLA 250	1.80	547	425	336	296	215	163	1.85	127	147	157	168	176	182	189	202	205	209	228	228
	1.75	629	475	364	348	222	168	1.80	127	156	167	178	187	193	200	214	219	223	243	246
	1.67	678	518	383	364	227	168	1.75	131	160	171	183	191	198	205	219	225	230	250	254

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	321	245	193	175	125	93.4	1.85	67.8	52.3	42.0	28.9	23.5	19.4	16.8	13.4	10.9	9.28	6.0*	5.02
	1.75	369	274	210	156	129	96.3	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	398	298	220	165	132	98.7	1.75	73.4	56.8	45.6	32.5	25.5	21.1	18.2	14.5	12.0	10.2	6.60	5.58
6TLA 150	1.80	353	271	218	189	137	103	1.85	76.3	58.8	47.2	33.8	26.4	21.9	18.9	15.1	12.3	10.4	6.83	5.71
	1.75	406	303	237	196	145	106	1.80	78.9	62.4	50.1	35.7	28.0	23.2	20.0	16.0	13.1	11.2	7.29	6.16
	1.67	438	330	249	207	145	109	1.75	81.3	63.9	51.3	36.5	28.7	23.8	20.5	16.4	13.5	11.3	7.50	6.34
6TLA 200	1.80	452	351	278	245	176	135	1.85	102	78.4	62.9	46.8	35.2	29.1	25.2	20.2	16.4	13.9	9.01	7.54
	1.75	520	384	301	240	184	139	1.80	105	83.2	66.8	47.6	37.3	30.9	26.7	21.4	17.5	14.9	9.62	8.13
	1.67	561	420	317	251	188	139	1.75	108	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	503	390	309	272	196	150	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	578	427	335	264	204	154	1.80	117	92.4	74.2	52.8	41.5	34.4	29.6	23.7	19.5	16.5	10.7	9.03
	1.67	622	476	352	275	209	156	1.75	120	94.7	76.0	54.1	42.5	35.2	30.4	24.3	20.0	17.0	11.0	9.30
6TLA 230	1.80	519	400	319	281	204	154	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	597	451	346	264	211	159	1.80	121	97.0	77.9	55.5	43.6	36.1	31.1	24.9	20.5	17.4	11.2	9.44
	1.67	643	492	363	275	216	160	1.75	124	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	37.8	28.1	22.7	17.8	13.2	1.80	9.03	7.46	6.01	4.29	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	4.39	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	40.5	31.7	25.0	18.6	1.80	13.5	10.5	8.46	6.02	4.73	3.92	3.35	2.71	2.22	1.89	1.17	1.00
	1.67	79.5	58.2	43.0	33.1	25.5	19.6	1.75	14.0	10.6	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	1.06
	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 45	1.80	118	87.5	69.4	61.2	44.5	33.2	1.85	23.7	18.3	14.7	10.5	8.21	6.80	5.87	4.70	3.82	3.25	2.09	1.71
	1.75	136	98.4	75.3	58.0	46.0	34.2	1.80	25.0	19.4	15.6	11.1	8.71	7.21	6.22	4.96	4.09	3.47	2.24	1.83
	1.67	146	107	79.2	60.6	47.0	34.4	1.75	25.7	19.9	16.0	11.4	8.85	7.39	6.39	5.11	4.20	3.57	2.30	1.88
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	4.56	2.67	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	2.98	2.50
12TLA 70	1.80	183	136	107	95	68.6	51.4	1.85	36.7	28.3	22.7	16.2	12.7	10.5	9.08	7.28	5.92	5.03	3.19	2.56
	1.75	210	152	117	84.3	71.2	53.0	1.80	38.6	30.0	24.1	17.2	13.5	11.2	9.63	7.72	6.33	5.38	3.40	2.71
	1.67	227	166	123	88.0	72.8	53.2	1.75	39.8	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	228	164	128	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	275	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	42.8	34.3	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	4.23
	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	349	255	188	136	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	5.56	4.69
12TLA 120	1.80	304	226	179	157	114	84.7	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	87.3	1.80	64.2	49.9	40.1	28.5	22.4	18.6	16.0	12.9	10.5	8.93	6.83	4.94
	1.67	376	276	204	152	121	87.7	1.75	66.1	51.1	41.0	29.2	23.0	19.0	16.4	13.1	10.8	9.16	6.00	5.08
12TLA 130	1.80	315	240	190	172	123	91.8	1.85	66.6	51.3	41.2	29.4	23.0	19.1	16.5	13.2	10.7	9.10	5.98	4.99
	1.75	363	269	206	156	127	94.6	1.80	70.0	54.5	43.7	31.1	24.5	20.3	17.5	14.0	11.5	9.73	6.37	5.00
	1.67	391	293	216	165	130	95.0	1.75	72.2	56.8	44.8	31.9	25.1	20.8	17.9	14.4	11.8	10.0	6.56	5.04
12TLA 150	1.80	343	261	211	182	132	99	1.85	74.7	57.6	46.3	32.9	25.9	21.4	18.5	14.8	12.0	10.2	6.69	5.00
	1.75	392	292	228	185	137	102	1.80	76.0	61.1	49.1	34.9	27.4	22.7	19.6	15.7	12.9	10.9	7.14	5.79
	1.67	422	318	240	193	140	102	1.75	78.3	62.6	50.3	35.8	28.1	23.3	20.1	16.1	13.2	11.2	7.35	5.22
12TLA 160	1.80	376	287	233	200	147	110	1.85	82.9	63.9	51.3	36.5	28.7	23.8	20.5	16.4	13.3	11.3	7.42	5.20
	1.75	432	321	253	209	162	113	1.80	84.3	67.8	54.4	38.9	30.4	25.2	21.7	17.4	14.3	12.1	7.92	5.54
	1.67	466	350	266	216	165	113	1.75	86.8	69.4	55.7	39.7	31.2	25.8	22.3	17.9	14.7	12.5	8.15	5.69
12TLA 175	1.80	383	297	235	207	150	114	1.85	88.0	68.6	55.1	39.2	30.8	25.5	22.0	17.6	14.3	12.2	7.96	6.66
	1.75	440	333	255	237	156	117	1.80	89	72.6	58.4	41.6	32.7	27.1	23.3	18.7	15.3	13.0	8.51	7.46
	1.67	474	363	288	248	159	118	1.75	92	74.6	59.8	42.6	33.5	27.7	23.9	19.2	15.9	13.4	8.75	7.40
12TLA 200	1.80	433	336	286	255	170	129	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	498	377	288	237	176	133	1.80	101	82.3	66.1	47.1	37.0	30.6	26.4	21.2	17.4	14.7	9.62	7.46
	1.67	537	410	303	246	180	133	1.75	104	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	481	374	295	261	186	143	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	553	419	320	303	196	148	1.80	112	91.5	73.4	52.3	41.1	34.0	29.3	23.5	19.3	16.4	10.7	9.50
	1.67	596	456	337	317	200	148	1.75	115	93.7	75.2	53.6	42.1	34.8	30.1	24.1	19.8	16.8	11.0	8.30
12TLA 250	1.80	547	425	336	296	216	163	1.85	127	98.0	78.7	56.0	44.0	36.4	31.4	25.2	20.6	17.4	11.4	9.5
	1.75	629	475	364	348	223	168	1.80	127	104	83.4	59.4	46.7	38.6	33.3	26.7	21.9	18.6	12.2	10.3
	1.67	676	518	383	364	227	168	1.75	131	107	85.5	61.0	47.8	39.6	34.2	27.4	22.5	19.1	12.5	10.6

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

JD Auspice Co.,Ltd. TEL: 886-2-8991-2796 FAX: 886-2-8991-9298 service@jdauspice.com www.jdauspice.com

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

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA AMPS @ 20 C. DISCHARGE TIME IN MINUTES						END Volts / CELL	DISCHARGE DATA Watts Per Cell @ 20 C. DISCHARGE TIME IN HOURS											
		5	10	15	20	30	45		1	1.5	2	3	4	5	6	8	10	12	20	24
6TLA 130	1.80	545	445	360	324	233	177	1.85	130	101	81.1	58.2	46.0	36.3	33.2	26.7	21.4	18.6	12.0	10.1
	1.75	611	494	397	348	246	185	1.80	133	106	85.5	61.4	48.6	40.4	35.0	28.2	23.0	19.7	12.9	10.8
	1.67	684	548	434	377	260	194	1.75	134	109	87.6	62.7	49.5	41.2	35.6	28.6	23.5	20.1	13.1	11.1
6TLA 150	1.80	601	490	402	349	257	195	1.85	146	113	91.2	65.5	51.8	43.1	37.3	30.0	24.5	20.9	13.7	11.5
	1.75	673	547	444	377	271	204	1.80	150	119	96.1	69.1	54.6	46.4	39.4	31.7	25.9	22.2	14.5	12.3
	1.67	758	607	491	407	286	213	1.75	151	121	98.5	70.5	55.7	46.3	40.1	32.2	26.5	22.6	14.8	12.6
6TLA 200	1.80	769	639	511	453	332	256	1.85	185	151	122	87.4	69.0	57.4	49.7	40.1	32.7	27.8	18.1	15.1
	1.75	861	710	565	490	351	267	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	965	788	624	525	370	279	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	854	710	568	504	369	284	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	957	789	627	544	390	297	1.80	222	176	142	102	80.9	67.3	58.4	46.9	38.4	32.9	21.3	18.1
	1.67	1072	875	693	588	411	310	1.75	224	180	146	104	82.5	68.6	59.4	47.7	39.2	33.5	21.6	18.4
6TLA 230	1.80	882	734	586	520	381	293	1.85	228	178	142	102	80.5	67.0	59.0	46.7	38.1	32.5	21.0	17.6
	1.75	988	814	648	562	402	307	1.80	233	185	150	107	84.9	70.7	61.3	49.3	40.3	34.5	22.3	18.9
	1.67	1107	904	716	607	424	320	1.75	235	189	153	110	86.8	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	13.0	10.9	7.86	6.21	5.17	4.48	3.61	2.94	2.50	1.64	1.41
	1.75	86.7	69.4	54.5	47.2	33.8	25.6	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	78.0	60.2	50.9	35.7	26.6	1.75	16.9	14.0	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	19.7	15.4	11.1	8.75	7.27	6.30	5.07	4.14	3.53	2.19	1.83
	1.75	122	98.3	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	5.78	4.72	4.02	2.56	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	7.58	6.10	4.98	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	2.21
12TLA 35	1.80	153	122	97.4	86.3	63.4	48.0	1.85	34.7	26.9	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	152	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 45	1.80	201	160	128	113	83.2	63.1	1.85	45.6	35.2	28.4	20.4	16.1	13.4	11.6	9.35	7.62	6.49	4.19	3.43
	1.75	225	177	141	122	87.7	65.9	1.80	46.7	37.0	29.9	21.5	17.0	14.1	12.3	9.86	8.06	6.91	4.46	3.67
	1.67	252	197	156	132	92.6	68.9	1.75	47.0	37.0	30.6	21.9	17.3	14.4	12.5	10.0	8.23	7.03	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	17.6	15.2	12.2	9.98	8.50	5.36	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	259	204	173	121	90.2	1.75	61.6	48.6	40.1	28.7	22.7	18.9	16.3	13.1	10.8	9.21	5.84	4.94
12TLA 70	1.80	311	247	198	175	129	98	1.85	70.5	54.5	43.9	31.5	24.9	20.7	18.0	14.5	11.8	10.1	6.36	5.35
	1.75	348	275	219	189	136	102	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	390	305	243	208	143	107	1.75	72.8	58.5	47.4	34.0	26.8	22.3	19.3	15.5	12.7	10.9	6.92	5.66
12TLA 80	1.80	394	288	212	189	139	105	1.85	75.9	58.6	47.2	34.0	26.8	22.3	19.3	15.6	12.7	10.8	6.84	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	67.9	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	128	1.80	88.9	70.6	57.0	40.9	32.4	26.9	23.3	18.8	15.4	13.2	8.03	6.42
	1.67	479	375	297	252	176	131	1.75	89.5	71.0	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	186	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	196	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	161	1.85	117	90.5	73.0	52.4	41.4	34.5	29.8	24.0	19.6	16.7	10.8	9.17
	1.75	578	456	363	314	226	166	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	508	401	340	238	176	1.75	121	97.1	78.8	56.4	44.5	37.1	32.1	25.9	21.2	18.1	11.9	10.0
12TLA 130	1.80	536	427	349	319	229	174	1.85	129	98.8	79.7	57.2	45.2	37.6	32.6	26.2	21.4	18.2	11.8	10.0
	1.75	600	485	386	343	242	182	1.80	131	104	84.0	60.3	47.7	39.7	34.4	27.7	22.6	19.4	12.7	10.0
	1.67	672	538	425	371	255	190	1.75	132	106	86.0	61.6	48.6	40.5	35.0	28.1	23.1	19.7	13.0	11.0
12TLA 150	1.80	579	475	387	336	247	188	1.85	143	111	89.4	64.2	50.7	42.2	36.5	29.4	24.0	20.5	13.4	11.2
	1.75	649	527	428	363	261	196	1.80	147	117	94.2	67.7	53.5	44.5	38.6	31.0	25.4	21.8	14.2	11.6
	1.67	726	585	473	392	275	205	1.75	148	119	96.5	69.1	54.5	45.4	39.3	31.6	25.9	22.2	14.5	12.3
12TLA 160	1.80	639	522	429	370	274	208	1.85	159	123	99	71.2	56.3	46.8	40.5	32.7	26.6	22.7	14.9	12.5
	1.75	710	579	474	399	289	218	1.80	163	129	104	75.1	59.3	49.4	42.8	34.4	28.1	24.1	15.8	13.1
	1.67	802	643	524	431	305	227	1.75	164	132	107	76.6	60.5	50.3	43.6	35.0	28.8	24.6	16.1	13.6
12TLA 175	1.80	650	541	432	384	281	216	1.85	171	132	106	76.4	60.4	50.2	43.5	35.1	28.6	24.4	16.0	13.4
	1.75	728	608	478	414	297	226	1.80	175	139	112	80.6	63.7	53.0	46.0	37.0	30.2	25.9	17.0	14.9
	1.67	816	668	528	447	313	236	1.75	176	142	115	82.3	64.9	54.1	46.8	37.6	30.9	26.4	17.3	14.7
12TLA 200	1.80	736	612	489	434	318	245	1.85	193	148	120	86.5	68.4	56.6	49.2	39.7	32.3	27.6	18.1	15.1
	1.75	824	679	540	469	336	256	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	923	754	597	506	354	267	1.75	199	160	130	93.1	73.5	61.2	52.9	42.5	34.8	29.8	19.6	16.6
12TLA 220	1.80	818	690	543	482	353	272	1.85	216	169	134	96.1	75.9	63.2	54.7	44.1	35.8	30.6	20.1	16.8
	1.75	916	755	600	521	373	284	1.80	220	175	141	101	80.1	66.6	57.8	46.5	38.0	32.6	21.3	19.0
	1.67	1026	838	663	562	393	297	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	929	773	617	548	402	309	1.85	244	189	152	109	86.3	71.8	62.2	50.1	40.8	34.8	22.8	19.1
	1.75	1041	858	682	593	424	323	1.80	250	198	160	115	91.0	75.7	65.7	52.9	43.2	37.0	24.2	20.6
	1.67	1166	952	754	635	447	336	1.75	252	202	164	116	92.6	77.2	66.8	53.7	44.1	37.7	24.7	20.9

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 KG	Battery Weight lbs	Overall Battery Dimensions Length Inch	Length mm	Width Inch	Width mm	Height Inch	Height mm
6TLA 130	130	760	1010	3200	3.0	FT 4	16.0	35.2	7.72	196	6.89	170	8.27	210
6TLA 150	150	860	1120	3700	2.9	FT 5	19.0	41.8	10.2	260	7.09	180	9.72	247
6TLA 200	196	980	1290	4600	2.4	FT 5	26.0	57.2	12.0	306	6.61	168	8.66	220
6 TLA 210	220	1200	1600	5000	2.3	FT 5	31.5	69.3	12.7	323	7.01	178	8.82	224
6 TLA 230	230	1300	1740	5500	2.2	FT 5	35.0	77.0	9.57	243	7.40	188	10.8	275
12TLA 15	18	125	155	650	14	FT 2	6.00	13.2	7.09	180	5.16	76.0	6.61	168
12TLA 20	24	165	205	940	12	FT 3	8.52	18.7	6.50	165	4.92	125	6.93	176
12TLA 25	28	200	165	1220	8.2	FT 3	9.40	20.7	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	6.34	161
12TLA 45	46	260	350	1700	6.0	FT 3	14.7	32.3	7.76	197	6.50	165	6.69	170
12 TLA 60	59	280	380	1900	5.6	FT 3	18.5	40.7	9.06	230	5.43	138	8.27	210
12 TLA 70	71	330	450	2000	5.5	FT 3	22.0	48.4	13.8	350	6.57	167	7.87	200
12TLA 80	77	410	550	2100	5.4	FT 3	25.7	56.5	10.2	259	6.65	169	8.46	215
12TLA 90	88	480	620	2400	4.5	FT 3	25.7	56.5	10.2	259	6.65	169	8.46	215
12TLA 100	100	510	660	2650	4.3	FT 4	26.0	61.6	12.1	307	6.69	170	8.46	215
12TLA 110	110	580	780	2900	3.9	FT 4	31.0	68.2	12.9	328	6.77	172	8.46	215
12TLA 120	121	710	960	3000	3.4	FT 4	31.5	69.3	12.9	328	6.81	173	8.46	215
12TLA 130	132	750	1020	3300	3.1	FT 4	32.5	71.5	16.1	409	6.89	175	9.06	230
12TLA 150	148	970	1300	4200	2.9	FT 5	42.0	92.4	13.5	342	6.81	173	11.2	285
12TLA 160	165	1060	1370	4500	2.6	FT 5	47.0	103	19.0	483	6.69	170	9.65	245
12TLA 175	176	1060	1370	4500	2.6	FT 5	52.0	114	20.9	530	8.23	209	8.86	225
12TLA 200	198	1100	1440	4700	2.3	FT 5	56.7	125	20.9	530	8.23	209	8.86	225
12TLA 220	220	1240	1670	5400	2.2	FT 5	63.0	139	20.6	522	9.45	240	8.86	225
12TLA 250	253	1460	1951	6157	2.0	FT 5	68.0	150	20.6	522	10.59	269	8.66	220

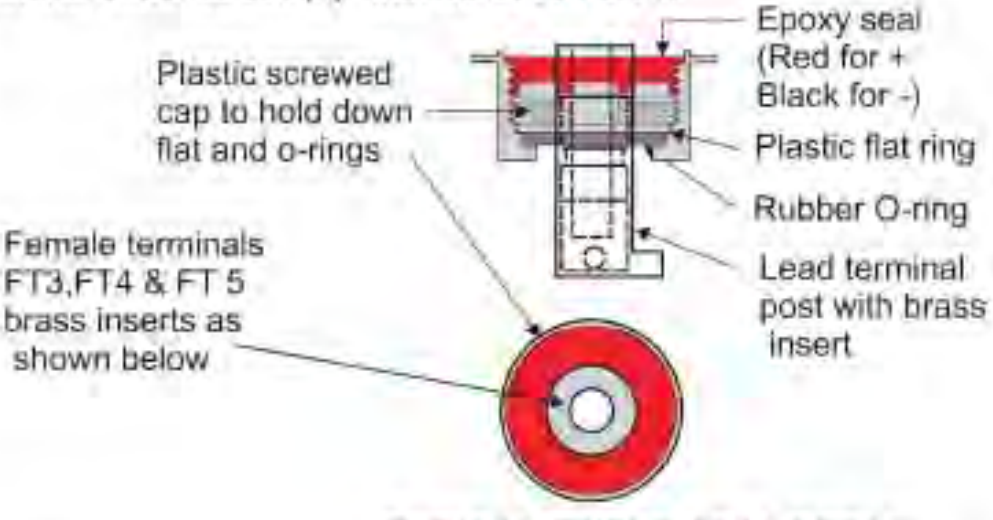
Actual Battery Data may be changed from the figures shown

* 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.

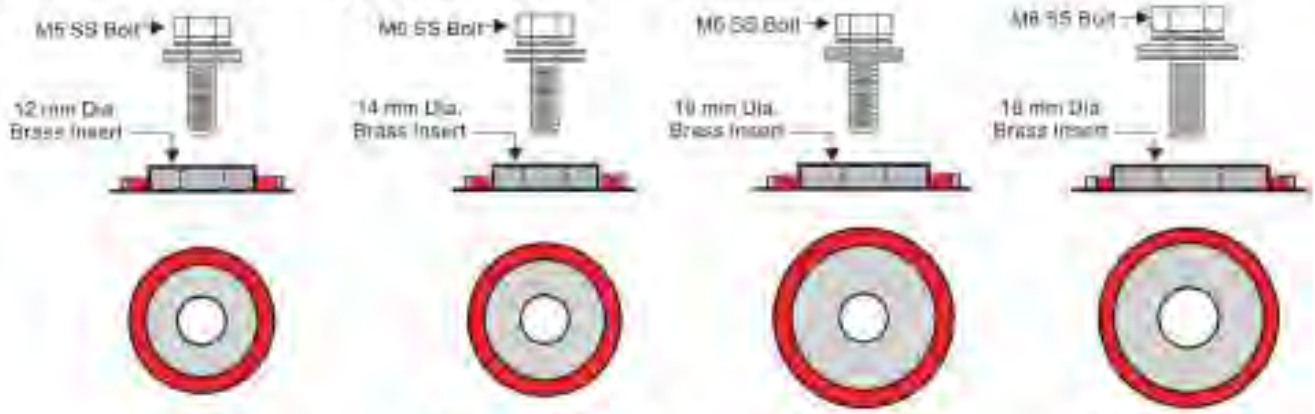
Applicable Standards

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**

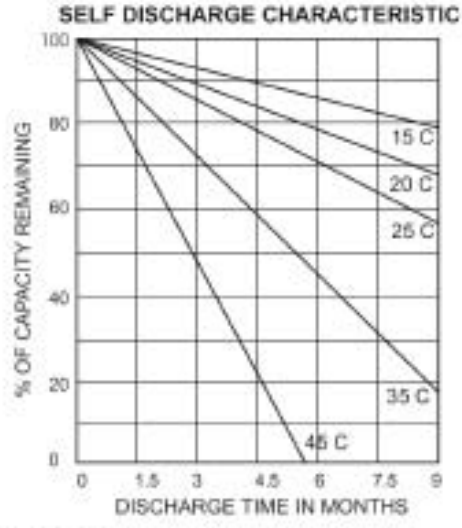
16 mm ∅ Brass Insert Terminal for M6 Bolt **TYPE FT 4**

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

Constant Voltage Charging.

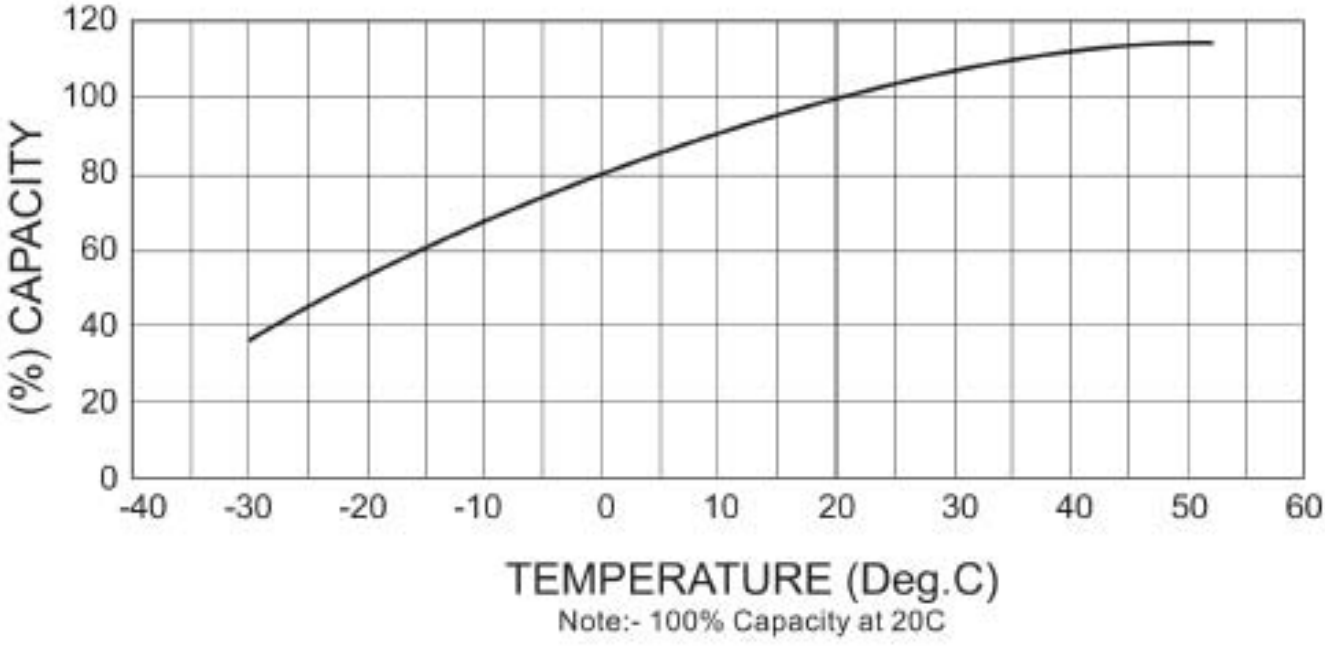
It is recommended to use Constant Voltage method of charging for Valve Regulated lead acid (VRLA) batteries. Charging voltages must be regularly checked and to optimize the battery performance it is necessary to ensure that the voltage is kept within the following limits.

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

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

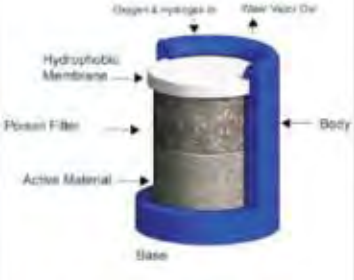
MICROLYTE Red Top Range

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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