CELLYTE 12TLA Bloc

SEALED VRLA MONOBLOC BATTERIES

CAPACITIES : 15 Ah. to 240 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 10 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

LEAD RETURN RECYCLE

Supplied Worldwide by:

SEC *Industrial Battery Co.*

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^{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 12TLA Ampere Hour Data @ 20 C.

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA AMPS — DISCHARGE TIME IN MINUTES						END Volts / CELL	DISCHARGE DATA AMPERE HOURS @ 20 C — DISCHARGE TIME IN HOURS									
		5	10	15	30	45	60		1.5	2	3	4	5	8	10	12	20	24
6TLA 120	1.80	288	214	169	108	81.0	67.0	1.85	70.5	75.5	80.7	84.5	87.4	95.4	98.3	100	109	110
	1.75	331	240	184	112	83.5	68.6	1.80	74.8	80.1	85.6	89.6	92.8	101	105	107	117	118
	1.67	357	261	193	115	83.9	69.1	1.75	76.7	82.1	87.7	91.8	95.0	104	108	110	120	122
6TLA 180	1.80	437	325	257	165	123	102	1.85	107	115	122	128	133	145	149	152	166	166
	1.75	502	364	279	170	127	104	1.80	114	122	130	136	141	153	160	163	177	179
	1.67	541	396	293	174	127	105	1.75	116	124	133	139	144	157	164	167	182	185
6TLA 200	1.80	480	357	282	181	135	112	1.85	118	126	134	141	146	159	164	167	182	183
	1.75	552	400	306	187	139	114	1.80	125	134	143	149	155	168	175	179	194	197
	1.67	595	436	322	191	140	115	1.75	128	137	146	153	158	173	180	184	200	203
12TLA 15	1.80	43.2	32.1	25.4	16.3	12.2	10.0	1.85	10.6	11.3	12.1	12.7	13.1	14.3	14.7	15.0	16.4	16.4
	1.75	49.7	36.0	27.6	16.8	12.5	10.3	1.80	11.2	12.0	12.8	13.4	13.9	15.2	15.8	16.1	17.5	17.7
	1.67	53.6	39.2	29.0	17.2	12.6	10.4	1.75	11.5	12.3	13.2	13.8	14.3	15.6	16.2	16.5	18.0	18.3
12TLA 20	1.80	57.6	43	33.9	21.7	16.2	13.4	1.85	14.1	15.1	16.1	16.9	17.5	19.1	19.7	20.0	21.8	21.9
	1.75	66.2	48.0	36.8	22.5	16.7	13.7	1.80	15.0	16.0	17.1	17.9	18.6	20.2	21.0	21.4	23.3	23.7
	1.67	71.4	52.3	38.6	23.0	16.8	13.8	1.75	15.3	16.4	17.5	18.4	19.0	20.7	21.6	22.0	24.0	24.4
12TLA 25	1.80	62.4	46.4	36.7	23.5	17.6	14.5	1.85	15.3	16.4	17.5	18.3	18.9	20.7	21.3	21.7	23.7	23.8
	1.75	71.7	52.0	39.8	24.3	18.1	14.9	1.80	16.2	17.4	18.5	19.4	20.1	21.9	22.8	23.2	25.3	25.6
	1.67	77.4	56.6	41.8	24.9	18.2	15.0	1.75	16.6	17.8	19.0	19.9	20.6	22.5	23.4	23.9	26.0	26.4
12TLA 30	1.80	79.2	58.9	46.6	29.8	22.3	18.4	1.85	19.4	20.8	22.2	23.2	24.0	26.2	27.0	27.6	30.0	30.1
	1.75	91.1	66.0	50.5	30.9	23.0	18.9	1.80	20.6	22.0	23.5	24.6	25.5	27.8	28.9	29.5	32.1	32.5
	1.67	98.2	71.9	53.1	31.6	23.1	19.0	1.75	21.1	22.6	24.1	25.2	26.1	28.5	29.7	30.3	33.0	33.5
12TLA 40	1.80	106	78.6	62.1	39.8	29.7	24.6	1.85	25.9	27.7	29.6	31.0	32.1	35.0	36.0	36.8	40.0	40.2
	1.75	121	88.0	67.4	41.2	30.6	25.2	1.80	27.4	29.4	31.4	32.9	34.0	37.1	38.6	39.3	42.8	43.4
	1.67	131	95.9	70.8	42.1	30.7	25.3	1.75	28.1	30.1	32.2	33.7	34.8	38.0	39.6	40.4	44.0	44.7
12TLA 55	1.80	132	98	77.6	49.7	37.1	30.7	1.85	32.3	34.6	37.0	38.7	40.1	43.7	45.0	45.9	50.1	50.2
	1.75	152	110	84.2	51.5	38.3	31.5	1.80	34.3	36.7	39.2	41.1	42.5	46.3	48.2	49.1	53.5	54.2
	1.67	164	120	88.5	52.6	38.4	31.7	1.75	35.1	37.6	40.2	42.1	43.6	47.5	49.5	50.5	55.0	55.8
12TLA 70	1.80	168	125	99	63.3	47.3	39.1	1.85	41.2	44.0	47.1	49.3	51.0	55.6	57.3	58.5	63.7	63.9
	1.75	193	140	107	65.5	48.7	40.0	1.80	43.7	46.7	49.9	52.3	54.1	59.0	61.4	62.5	68.0	69.0
	1.67	208	152	113	66.9	48.9	40.3	1.75	44.7	47.9	51.2	53.6	55.4	60.5	63.0	64.3	70.0	71.1
12TLA 80	1.80	187	139	110	70.5	52.7	43.5	1.85	45.9	49.1	52.4	54.9	56.8	62.0	63.9	65.2	71.0	71.3
	1.75	215	156	119	73.0	54.3	44.6	1.80	48.6	52.1	55.6	58.2	60.3	65.7	68.4	69.7	75.8	76.9
	1.67	232	170	126	74.6	54.5	44.9	1.75	49.8	53.4	57.0	59.7	61.8	67.4	70.2	71.6	78.0	79.2
12TLA 90	1.80	216	161	127	81.4	60.8	50.2	1.85	52.9	56.6	60.5	63.3	65.6	71.5	73.7	75.2	81.9	82.2
	1.75	248	180	138	84.2	62.6	51.5	1.80	56.1	60.1	64.2	67.2	69.6	75.8	78.9	80.4	87.5	88.7
	1.67	268	196	145	86.1	62.9	51.8	1.75	57.5	61.6	65.8	68.9	71.3	77.8	81.0	82.6	90.0	91.4
12TLA 100	1.80	240	179	141	90.4	67.5	55.8	1.85	58.8	62.9	67.2	70.4	72.9	79.5	81.9	83.5	91.0	91.4
	1.75	276	200	153	93.6	69.6	57.2	1.80	62.4	66.8	71.3	74.7	77.3	84.2	87.7	89.3	97.2	98.6
	1.67	298	218	161	96	69.9	57.6	1.75	63.9	68.4	73.1	76.5	79.2	86.4	90.0	91.8	100	102
12TLA 110	1.80	264	196	155	99	74.3	61.4	1.85	64.7	69.2	74.0	77.4	80.2	87.4	90.1	91.9	100	100
	1.75	304	220	168	103	76.6	62.9	1.80	68.6	73.4	78.5	82.1	85.0	92.7	96.4	98.3	107	108
	1.67	327	240	177	105	76.9	63.3	1.75	70.3	75.2	80.4	84.2	87.1	95.0	99.0	101	110	112
12TLA 120	1.80	288	214	169	108	81.0	67.0	1.85	70.5	75.5	80.7	84.5	87.4	95.4	98.3	109	109	110
	1.75	331	240	184	112	83.5	68.6	1.80	74.8	80.1	85.6	89.6	92.8	101	105	117	117	118
	1.67	357	261	193	115	83.9	69.1	1.75	76.7	82.1	87.7	91.8	95.0	104	108	120	120	122
12TLA 150	1.80	336	250	198	127	95	78.1	1.85	82.3	88.1	94.1	98.5	102	111	115	117	127	128
	1.75	386	280	214	131	97	80.1	1.80	87.3	93.5	100	105	108	118	123	125	136	138
	1.67	417	305	225	134	98	80.6	1.75	89.5	95.8	102	107	111	121	126	129	140	142
12TLA 180	1.80	432	321	254	163	122	100	1.85	106	113	121	127	131	143	147	150	164	164
	1.75	497	360	276	168	125	103	1.80	112	120	128	134	139	152	158	161	175	177
	1.67	536	392	290	172	126	104	1.75	115	123	132	138	143	156	162	165	180	183
12TLA 200	1.80	480	357	282	181	135	112	1.85	118	126	134	141	146	159	164	167	182	183
	1.75	552	400	306	187	139	114	1.80	125	134	143	149	155	168	175	179	194	197
	1.67	595	436	322	191	140	115	1.75	128	137	146	153	158	173	180	184	200	203
12TLA 240	1.80	588	437	346	221	165	137	1.85	144	154	165	172	179	195	201	205	223	224
	1.75	676	490	375	229	171	140	1.80	153	164	175	183	189	206	215	219	238	241
	1.67	729	534	394	234	171	141	1.75	157	168	179	187	194	212	221	225	245	249

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

CELLYTE Bloc 12TLA Amps Data @ 20 C.

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA AMPS @ 20 C — DISCHARGE TIME IN MINUTES						END Volts / CELL	DISCHARGE DATA AMPS @ 20 C — DISCHARGE TIME IN HOURS									
		5	10	15	30	45	60		1.5	2	3	4	5	8	10	12	20	24
6TLA 120	**1.80**	288	214	169	108	81	67.0	**1.85**	47.0	37.8	26.9	21.1	17.5	11.9	9.8	8.4	5.46	4.57
	1.75	331	240	184	112	84	68.6	**1.80**	49.9	40.1	28.5	22.4	18.6	12.6	10.5	8.9	5.83	4.93
	1.67	357	261	193	115	84	69.1	**1.75**	51.1	41.0	29.2	23.0	19.0	13.0	10.8	9.2	6.0	5.08
6TLA 180	**1.80**	437	325	257	165	123	102	**1.85**	71.3	57.3	40.8	32.0	26.5	18.1	14.9	12.7	8.28	6.93
	1.75	502	364	279	170	127	104	**1.80**	75.7	60.8	43.3	34.0	28.1	19.2	16.0	13.5	8.85	7.47
	1.67	541	396	293	174	127	105	**1.75**	77.5	62.2	44.3	34.8	28.8	19.7	16.4	13.9	9.1	7.70
6TLA 200	**1.80**	480	357	282	181	135	112	**1.85**	78.4	62.9	44.8	35.2	29.1	19.9	16.4	13.9	9.10	7.61
	1.75	552	400	306	187	139	114	**1.80**	83.2	66.8	47.6	37.3	30.9	21.1	17.5	14.9	9.72	8.21
	1.67	595	436	322	191	140	115	**1.75**	85.2	68.4	48.7	38.3	31.7	21.6	18.0	15.3	10.0	8.46
12TLA 15	**1.80**	43.2	32.1	25.4	16.3	12.2	10.0	**1.85**	7.05	5.66	4.03	3.17	2.62	1.79	1.47	1.25	0.82	0.69
	1.75	49.7	36.0	27.6	16.8	12.5	10.3	**1.80**	7.48	6.01	4.28	3.36	2.78	1.90	1.58	1.34	0.87	0.74
	1.67	53.6	39.2	29.0	17.2	12.6	10.4	**1.75**	7.67	6.16	4.38	3.44	2.85	1.94	1.62	1.38	0.90	0.76
12TLA 20	**1.80**	57.6	42.9	33.9	21.7	16.2	13.4	**1.85**	9.41	7.55	5.38	4.22	3.50	2.38	1.97	1.67	1.09	0.91
	1.75	66.2	48.0	36.8	22.5	16.7	13.7	**1.80**	10.0	8.01	5.71	4.48	3.71	2.53	2.10	1.79	1.17	0.99
	1.67	71.4	52.3	38.6	23.0	16.8	13.8	**1.75**	10.2	8.21	5.85	4.59	3.80	2.59	2.16	1.84	1.20	1.02
12TLA 25	**1.80**	62.4	46.4	36.7	23.5	17.6	14.5	**1.85**	10.2	8.2	5.83	4.57	3.79	2.58	2.13	1.81	1.18	0.99
	1.75	71.7	52.0	39.8	24.3	18.1	14.9	**1.80**	10.8	8.7	6.18	4.85	4.02	2.74	2.28	1.94	1.26	1.07
	1.67	77.4	56.6	41.8	24.9	18.2	15.0	**1.75**	11.1	8.9	6.33	4.97	4.12	2.81	2.34	1.99	1.30	1.10
12TLA 30	**1.80**	79.2	58.9	46.6	29.8	22.3	18.4	**1.85**	12.9	10.4	7.40	5.81	4.81	3.28	2.70	2.30	1.50	1.26
	1.75	91.1	66.0	50.5	30.9	23.0	18.9	**1.80**	13.7	11.0	7.85	6.16	5.10	3.47	2.89	2.46	1.60	1.36
	1.67	98.2	71.9	53.1	31.6	23.1	19.0	**1.75**	14.1	11.3	8.04	6.31	5.23	3.56	2.97	2.52	1.65	1.40
12TLA 40	**1.80**	106	78.6	62.1	39.8	29.7	24.6	**1.85**	17.2	13.8	9.86	7.74	6.41	4.37	3.60	3.06	2.00	1.67
	1.75	121	88.0	67.4	41.2	30.6	25.2	**1.80**	18.3	14.7	10.5	8.21	6.80	4.63	3.86	3.28	2.14	1.81
	1.67	131	95.9	70.8	42.1	30.7	25.3	**1.75**	18.7	15.0	10.7	8.42	6.97	4.75	3.96	3.37	2.20	1.86
12TLA 55	**1.80**	132	98	77.6	49.7	37.1	30.7	**1.85**	21.6	17.3	12.3	9.68	8.02	5.46	4.50	3.83	2.50	2.09
	1.75	152	110	84.2	51.5	38.3	31.5	**1.80**	22.9	18.4	13.1	10.3	8.50	5.79	4.82	4.09	2.67	2.26
	1.67	164	120	88.5	52.6	38.4	31.7	**1.75**	23.4	18.8	13.4	10.5	8.71	5.94	4.95	4.21	2.75	2.33
12TLA 70	**1.80**	168	125	98.8	63.3	47.3	39.1	**1.85**	27.4	22.0	15.7	12.3	10.2	6.96	5.73	4.87	3.19	2.66
	1.75	193	140	107	65.5	48.7	40.0	**1.80**	29.1	23.4	16.6	13.1	10.8	7.37	6.14	5.21	3.40	2.87
	1.67	208	152	113	66.9	48.9	40.3	**1.75**	29.8	23.9	17.1	13.4	11.1	7.56	6.30	5.36	3.50	2.96
12TLA 80	**1.80**	187	139	110	70.5	52.7	43.5	**1.85**	30.6	24.5	17.5	13.7	11.4	7.75	6.39	5.43	3.55	2.97
	1.75	215	156	119	73.0	54.3	44.6	**1.80**	32.4	26.0	18.5	14.6	12.1	8.21	6.84	5.81	3.79	3.20
	1.67	232	170	126	74.6	54.5	44.9	**1.75**	33.2	26.7	19.0	14.9	12.4	8.42	7.02	5.97	3.90	3.30
12TLA 90	**1.80**	216	161	127	81.4	60.8	50.2	**1.85**	35.3	28.3	20.2	15.8	13.1	8.94	7.37	6.27	4.10	3.43
	1.75	248	180	138	84.2	62.6	51.5	**1.80**	37.4	30.0	21.4	16.8	13.9	9.48	7.89	6.70	4.37	3.70
	1.67	268	196	145	86.1	62.9	51.8	**1.75**	38.3	30.8	21.9	17.2	14.3	9.72	8.10	6.89	4.50	3.81
12TLA 100	**1.80**	240	179	141	90.4	67.5	55.8	**1.85**	39.2	31.5	22.4	17.6	14.6	9.94	8.19	6.96	4.55	3.81
	1.75	276	200	153	93.6	69.6	57.2	**1.80**	41.6	33.4	23.8	18.7	15.5	10.5	8.77	7.44	4.86	4.11
	1.67	298	218	161	96	69.9	57.6	**1.75**	42.6	34.2	24.4	19.1	15.8	10.8	9.00	7.65	5.00	4.23
12TLA 110	**1.80**	264	196	155	99	74.3	61.4	**1.85**	43.1	34.6	24.7	19.4	16.0	10.9	9.01	7.66	5.01	4.19
	1.75	304	220	168	103	76.6	62.9	**1.80**	45.7	36.7	26.2	20.5	17.0	11.6	9.64	8.19	5.35	4.52
	1.67	327	240	177	105	76.9	63.3	**1.75**	46.9	37.6	26.8	21.0	17.4	11.9	9.90	8.42	5.50	4.65
12TLA 120	**1.80**	288	214	169	108	81.0	67.0	**1.85**	47.0	37.8	26.9	21.1	17.5	11.9	9.83	9.10	5.46	4.57
	1.75	331	240	184	112	83.5	68.6	**1.80**	49.9	40.1	28.5	22.4	18.6	12.6	10.5	9.73	5.83	4.93
	1.67	357	261	193	115	83.9	69.1	**1.75**	51.1	41.0	29.2	23.0	19.0	13.0	10.8	10.0	6.00	5.08
12TLA 150	**1.80**	336	250	198	127	95	78.1	**1.85**	54.9	44.0	31.4	24.6	20.4	13.9	11.5	9.7	6.37	5.33
	1.75	386	280	214	131	97	80.1	**1.80**	58.2	46.7	33.3	26.1	21.6	14.7	12.3	10.4	6.80	5.75
	1.67	417	305	225	134	98	80.6	**1.75**	59.6	47.9	34.1	26.8	22.2	15.1	12.6	10.7	7.00	5.92
12TLA 180	**1.80**	432	321	254	163	122	100	**1.85**	70.5	56.6	40.3	31.7	26.2	17.9	14.7	12.5	8.19	6.85
	1.75	497	360	276	168	125	103	**1.80**	74.8	60.1	42.8	33.6	27.8	19.0	15.8	13.4	8.75	7.39
	1.67	536	392	290	172	126	104	**1.75**	76.7	61.6	43.8	34.4	28.5	19.4	16.2	13.8	9.00	7.61
12TLA 200	**1.80**	480	357	282	181	135	112	**1.85**	78.4	62.9	44.8	35.2	29.1	19.9	16.4	13.9	9.10	7.61
	1.75	552	400	306	187	139	114	**1.80**	83.2	66.8	47.6	37.3	30.9	21.1	17.5	14.9	9.72	8.21
	1.67	595	436	322	191	140	115	**1.75**	85.2	68.4	48.7	38.3	31.7	21.6	18.0	15.3	10.0	8.46
12TLA 240	**1.80**	588	437	346	221	165	137	**1.85**	96.0	77.1	54.9	43.1	35.7	24.3	20.1	17.1	11.1	9.33
	1.75	676	490	375	229	171	140	**1.80**	102	81.8	58.2	45.7	37.9	25.8	21.5	18.2	11.9	10.1
	1.67	729	534	394	234	171	141	**1.75**	104	83.8	59.7	46.9	38.8	26.5	22.1	18.7	12.3	10.4

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

CELLYTE 12TLA Watts per Cell @ 20 C.

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE W P C @ 20 C DISCHARGE TIME IN MINUTES 5	10	15	30	45	60	END Volts / CELL	DISCHARGE DATA Watts Per Cell AT 20 C DISCHARGE TIME IN HOURS 1.5	2	3	4	5	8	10	12	20	24
6TLA 120	1.80	515	390	312	203	154	129	1.85	90.5	73.0	52.4	41.4	34.5	23.7	19.6	16.7	10.9	9.17
	1.75	593	437	338	210	159	132	1.80	95.2	76.9	55.3	43.7	36.3	25.0	20.7	17.8	11.6	9.86
	1.67	639	476	355	215	159	133	1.75	97.1	78.8	56.4	44.5	37.1	25.4	21.2	18.1	11.9	10.0
6TLA 180	1.80	782	591	473	308	233	195	1.85	137	111	79.5	62.8	52.2	35.9	29.7	25.3	16.6	13.9
	1.75	899	662	513	318	241	200	1.80	144	117	83.8	66.2	55.1	37.9	31.4	26.9	17.6	14.9
	1.67	969	722	539	325	242	201	1.75	147	120	85.6	67.5	56.2	38.5	32.1	27.4	18.0	15.2
6TLA 200	1.80	859	650	520	338	257	214	1.85	151	122	87.4	69.0	57.4	39.5	32.7	27.8	18.2	15.3
	1.75	988	728	564	350	265	220	1.80	159	128	92.1	72.8	60.6	41.6	34.5	29.6	19.4	16.4
	1.67	1065	793	592	358	266	221	1.75	162	131	94.0	74.2	61.8	42.3	35.3	30.1	19.8	16.7
12TLA 15	1.80	77.3	58.5	46.8	30.4	23.1	19.3	1.85	13.6	10.9	7.86	6.21	5.17	3.55	2.94	2.50	1.64	1.38
	1.75	88.9	65.5	50.7	31.5	23.8	19.8	1.80	14.3	11.5	8.29	6.55	5.45	3.75	3.11	2.66	1.74	1.48
	1.67	95.9	71.4	53.3	32.2	23.9	19.9	1.75	14.6	11.8	8.46	6.68	5.56	3.81	3.18	2.71	1.78	1.51
12TLA 20	1.80	103	78.0	62.3	40.6	30.8	25.7	1.85	18.1	14.6	10.5	8.29	6.89	4.74	3.92	3.34	2.19	1.83
	1.75	119	87.4	67.6	42.0	31.7	26.4	1.80	19.0	15.4	11.1	8.74	7.27	5.00	4.14	3.55	2.33	1.97
	1.67	128	95.2	71.1	42.9	31.9	26.5	1.75	19.4	15.8	11.3	8.90	7.41	5.08	4.23	3.62	2.37	2.01
12TLA 25	1.80	112	84	67.5	44.0	33.4	27.9	1.85	19.6	15.8	11.4	9.0	7.46	5.13	4.25	3.62	2.37	1.99
	1.75	128	95	73.3	45.5	34.4	28.6	1.80	20.6	16.7	12.0	9.5	7.87	5.41	4.49	3.85	2.52	2.14
	1.67	138	103	77.0	46.5	34.5	28.7	1.75	21.0	17.1	12.2	9.6	8.03	5.50	4.59	3.92	2.57	2.18
12TLA 30	1.80	142	107	85.7	55.8	42.3	35.4	1.85	24.9	20.1	14.4	11.4	9.47	6.52	5.39	4.59	3.01	2.52
	1.75	163	120	93.0	57.7	43.6	36.2	1.80	26.2	21.1	15.2	12.0	9.99	6.87	5.70	4.89	3.20	2.71
	1.67	176	131	97.7	59.0	43.8	36.5	1.75	26.7	21.7	15.5	12.2	10.2	6.99	5.82	4.97	3.26	2.76
12TLA 40	1.80	189	143	114	74.4	56.4	47.1	1.85	33.2	26.8	19.2	15.2	12.6	8.69	7.19	6.12	4.01	3.36
	1.75	217	160	124	77.0	58.2	48.3	1.80	34.9	28.2	20.3	16.0	13.3	9.16	7.60	6.51	4.26	3.61
	1.67	234	174	130	78.7	58.4	48.6	1.75	35.6	28.9	20.7	16.3	13.6	9.31	7.76	6.63	4.35	3.68
12TLA 55	1.80	236	179	143	93.0	70.6	58.9	1.85	41.5	33.5	24.0	19.0	15.8	10.9	8.98	7.65	5.02	4.20
	1.75	272	200	155	96	72.7	60.4	1.80	43.7	35.2	25.3	20.0	16.7	11.4	9.50	8.14	5.33	4.52
	1.67	293	218	163	98	73.0	60.8	1.75	44.5	36.1	25.9	20.4	17.0	11.6	9.70	8.29	5.44	4.61
12TLA 70	1.80	301	227	182	118	89.8	75.0	1.85	52.8	42.6	30.6	24.2	20.1	13.8	11.4	9.74	6.38	5.35
	1.75	346	255	197	122	92.6	76.9	1.80	55.6	44.9	32.2	25.5	21.2	14.6	12.1	10.4	6.78	5.75
	1.67	373	278	207	125	92.9	77.4	1.75	56.7	46.0	32.9	26.0	21.6	14.8	12.3	10.5	6.92	5.86
12TLA 80	1.80	335	253	203	132	100	83.6	1.85	58.8	47.4	34.1	26.9	22.4	15.4	12.7	10.9	7.11	5.96
	1.75	385	284	220	136	103	85.7	1.80	61.9	50.0	35.9	28.4	23.6	16.2	13.5	11.5	7.56	6.41
	1.67	415	309	231	139	104	86.2	1.75	63.1	51.2	36.7	28.9	24.1	16.5	13.8	11.8	7.71	6.53
12TLA 90	1.80	387	292	234	152	115	96	1.85	67.9	54.7	39.3	31.1	25.8	17.8	14.7	12.5	8.21	6.88
	1.75	445	328	254	157	119	99	1.80	71.4	57.7	41.4	32.8	27.3	18.7	15.5	13.3	8.72	7.39
	1.67	479	357	267	161	119	100	1.75	72.8	59.1	42.3	33.4	27.8	19.1	15.9	13.6	8.90	7.54
12TLA 100	1.80	429	325	260	169	128	107	1.85	75.4	60.8	43.7	34.5	28.7	19.7	16.3	13.9	9.12	7.64
	1.75	494	364	282	175	132	110	1.80	79.4	64.1	46.1	36.4	30.3	20.8	17.3	14.8	9.69	8.21
	1.67	533	396	296	179	133	111	1.75	80.9	65.7	47.0	37.1	30.9	21.2	17.6	15.1	9.89	8.37
12TLA 110	1.80	472	357	286	186	141	118	1.85	82.9	66.9	48.0	38.0	31.6	21.7	18.0	15.3	10.0	8.40
	1.75	543	400	310	192	145	121	1.80	87.3	70.5	50.7	40.0	33.3	22.9	19.0	16.3	10.7	9.03
	1.67	586	436	326	197	146	122	1.75	89.0	72.2	51.7	40.8	34.0	23.3	19.4	16.6	10.9	9.21
12TLA 120	1.80	515	390	312	203	154	129	1.85	90.5	73.0	52.4	41.4	34.5	23.7	19.6	18.2	10.9	9.17
	1.75	593	437	338	210	159	132	1.80	95.2	76.9	55.3	43.7	36.3	25.0	20.7	19.4	11.6	9.86
	1.67	639	476	355	215	159	133	1.75	97.1	78.8	56.4	44.5	37.1	25.4	21.2	19.7	11.9	10.0
12TLA 150	1.80	601	455	364	237	180	150	1.85	106	85.1	61.2	48.3	40.2	27.6	22.9	19.5	12.8	10.7
	1.75	691	510	395	245	185	154	1.80	111	89.7	64.5	51.0	42.4	29.1	24.2	20.7	13.6	11.5
	1.67	746	555	415	250	186	155	1.75	113	91.9	65.8	51.9	43.2	29.6	24.7	21.1	13.8	11.7
12TLA 180	1.80	773	585	468	304	231	193	1.85	136	109	78.6	62.1	51.7	35.5	29.4	25.0	16.4	13.8
	1.75	889	655	507	315	238	198	1.80	143	115	82.9	65.5	54.5	37.5	31.1	26.6	17.4	14.8
	1.67	959	714	533	322	239	199	1.75	146	118	84.6	66.8	55.6	38.1	31.8	27.1	17.8	15.1
12TLA 200	1.80	859	650	520	338	257	214	1.85	151	122	87.4	69.0	57.4	39.5	32.7	27.8	18.2	15.3
	1.75	988	728	564	350	265	220	1.80	159	128	92.1	72.8	60.6	41.6	34.5	29.6	19.4	16.4
	1.67	1065	793	592	358	266	221	1.75	162	131	94.0	74.2	61.8	42.3	35.3	30.1	19.8	16.7
12TLA 240	1.80	1052	796	636	414	314	262	1.85	185	149	107	84.6	70.3	48.4	40.0	34.1	22.3	18.7
	1.75	1210	892	691	429	324	269	1.80	194	157	113	89.2	74.2	51.0	42.3	36.3	23.7	20.1
	1.67	1305	971	726	438	325	271	1.75	198	161	115	90.9	75.7	51.9	43.2	36.9	24.2	20.5

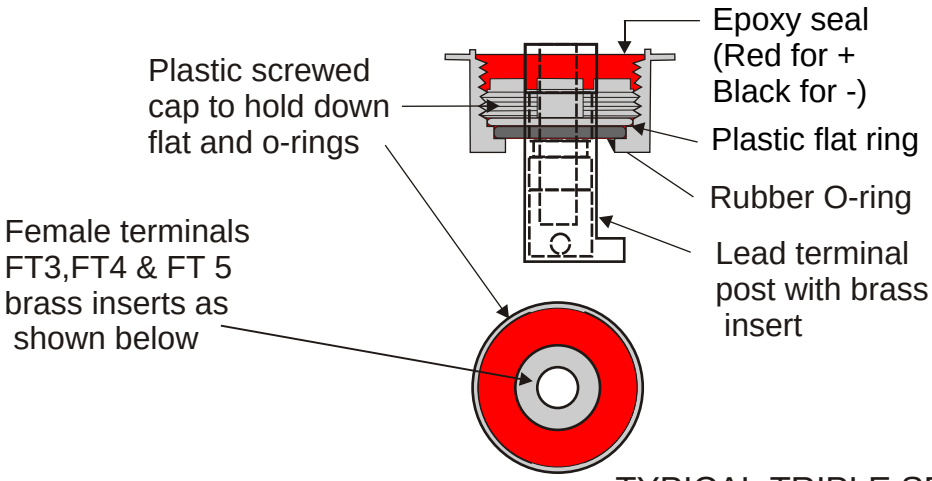
Actual Battery Discharge Data may be +/-5% of figures shown.

CELLYTE 12TLA Bloc Data & Dimensions

SEC Battery Type	Capacity C/10 1.80 vpc	CCA at -18 C 0 F.	CCA at 0 C. 32 F.	Short Circuit Amps	Internal Resistance mOhms	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 120	120	760	1010	3200	3.0	FT 3	16.0	35.2	7.72	196	6.693	170	8.268	210
6TLA 180	180	980	1290	4600	2.4	FT 4	26.0	57.2	12.0	306	6.614	168	8.661	220
6 TLA 200	200	1200	1600	5000	2.3	FT 4	31.5	69.3	12.72	323	7.008	178	8.819	224
12TLA 15	15	125	155	650	14	FT 1	6.00	13.2	7.087	180	5.16	76.0	6.57	167
12TLA 20	20	165	205	940	12.0	FT 1	8.52	18.7	6.50	165	4.921	125	6.929	176
12TLA 25	25	200	165	1220	8.2	FT 1	9.40	20.7	6.50	165	4.921	125	6.929	176
12TLA 30	30	240	320	1500	7.3	FT 2	10.5	23.1	7.717	196	5.16	131	6.34	161
12TLA 40	40	260	350	1700	6.0	FT 2	14.7	32.3	7.756	197	6.496	165	6.693	170
12 TLA 55	55	280	380	1900	5.6	FT 2	18.5	40.7	9.055	230	5.433	138	8.268	210
12TLA 70	70	410	550	2100	5.4	FT 2	25.7	56.5	10.2	259	6.654	169	8.189	208
12TLA 80	80	460	620	2400	4.5	FT 2	25.7	56.5	10.2	259	6.654	169	8.189	208
12TLA 90	90	510	680	2650	4.3	FT 3	28.0	61.6	12.0	306	6.693	170	8.386	213
12TLA 100	100	580	780	2900	3.9	FT 3	31.0	68.2	12.0	306	6.693	170	8.386	213
12TLA 110	110	710	960	3000	3.4	FT 3	31.5	69.3	13.0	330	6.693	170	8.386	213
12TLA 120	120	760	1020	3300	3.1	FT 3	32.5	71.5	15.9	405	6.89	175	8.937	227
12TLA 150	150	970	1300	4200	2.9	FT 4	42.0	92.4	13.46	342	6.811	173	11.22	285
12TLA180	180	1100	1440	4700	2.3	FT 4	56.7	124.7	20.55	522	9.449	240	8.50	216
12TLA 200	200	1240	1670	5400	2.2	FT 4	63.0	138.6	20.55	522	9.37	238	8.50	216
12TLA 240	240	1460	1951	6157	2.0	FT 5	73.0	160.6	20.55	522	10.59	269	8.11	206

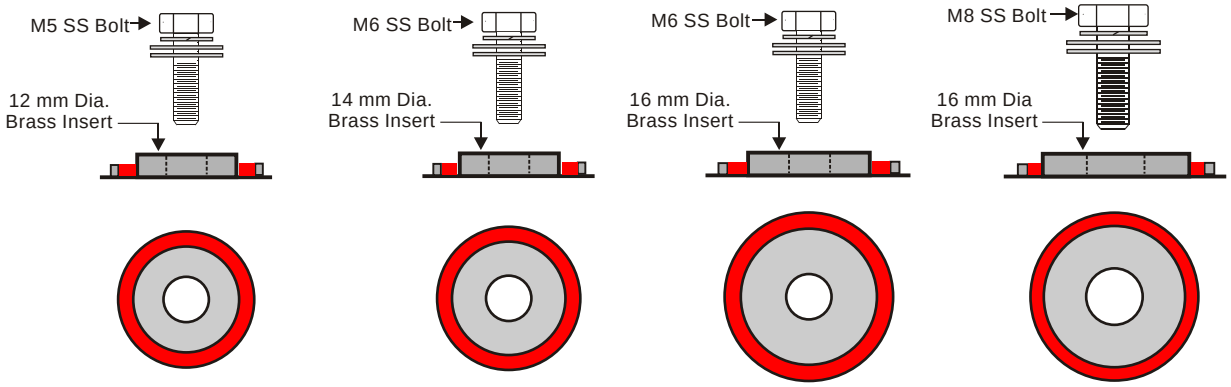
Actual Battery Data may be changed from the figures shown.

* 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.



TYPICAL TRIPLE SEAL DETAIL

FEMALE TERMINAL (FT) DETAILS



12 mm Brass Insert Terminal for M5 Bolt
TYPE FT 2

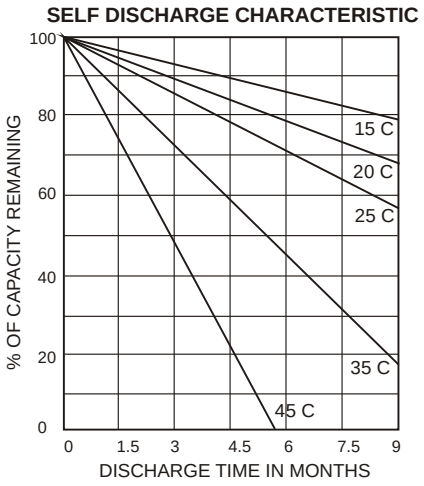
14 mm Brass Insert Terminal for M6 Bolt
TYPE FT 3

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.

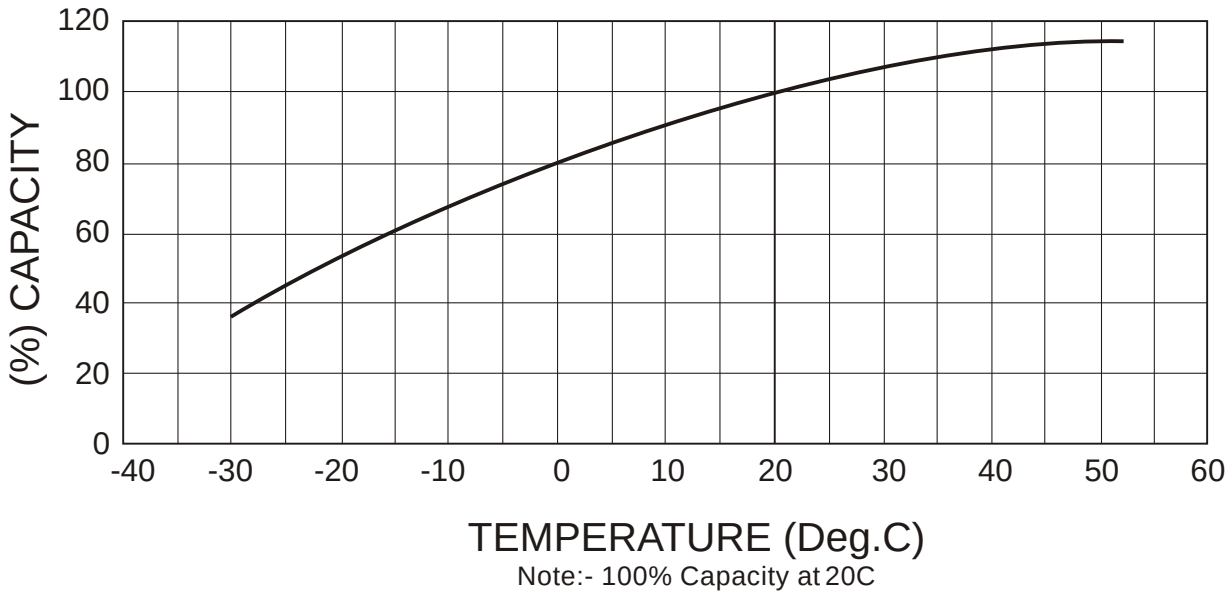
It is recommended to use Constant Voltage method of charging for Valve Regulated lead acid (VRLA) batteries. Charging voltages must be regularly checked and to optimize the battery performance it is necessary to ensure that the voltage is kept within the following limits.



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

For all your Battery Needs

SEC have Batteries to suit all your needs with full range of Absorbed Glass Mat (AGM) for Float, Standby and Gel Batteries for Cycling applications. 1.3 Ah. to over 4500 Ah.

SEC Main Battery Range

***CELLYTE* Modular AGM**
20 Year Design Life
102Ah. to 4599Ah.

***CELLYTE* Gel OPzV Range**
Tubular Plate
18 Year Design Life
240Ah. to 3500Ah.

***CELLYTE 2*TLA & 2TLG Range**
15 Year Design Life
50Ah. to 3850Ah.

***CELLYTE* Bloc Gel**
10 Year Design Life
12AH. to 265Ah.

***CELLYTE* Bloc "A" Line**
10 Year Design Life
30Ah. to 220Ah.

***CELLYTE* Bloc TU / TG / RM**
10 Year Design Life
30Ah. to 100Ah.

***CELLYTE* 12FTA & 12FTG**
10 Year Design Life
55Ah. to 175Ah. and
50Ah. to 170Ah.

***CELLYTE* Bloc TUA Range**
10 Year Design Life
30Ah. to 750Ah.

***CELLYTE* Bloc TSG Range**
10 Year Design Life
60Ah. to 300Ah.

***CELLYTE* 12TLA & 12TLG Blocs**
10 Year Design Life
30Ah. to 240Ah. and
35Ah. to 260Ah.

***MICROLYTE* Plus & Gel**
5 Year Design Life
1.3Ah. to 240 Ah. and
12Ah. to 260 Ah.

SOLAR POWR
10 to15 Year Design Life
250 to 2678 Ampere Hour

SEC OSP FL Range
15 Year Design Life
150Ah. to 3500Ah.

Standards / Approvals

UL approval
BS 6290 Part 4 (Optional)
Eurobat (Draft IEC 896-2)
IEEE & JIS

FLOODED TUBULAR POSITIVE PLATE
15 + Year Design Life
110Ah. to 3110Ah.

FLOODED PLANTE POSITIVE PLATE
20 Year Design Life
15Ah. to 2600Ah.

NICKEL CADMIUM- Pocket Plate
20 + Year Design Life
10Ah. to 1650Ah.

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