

CELLYTE 6-12TUA

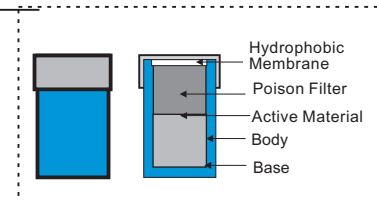


Sealed VRLA Monobloc Battery

Introducing New Monobloc Catalyst Technology with 12 year design life

Designed for Operation at up to 30°C

Capacities : 40Ah to 250Ah. @ C/10 to 1.80Vpc at 20C



**Monobloc Catalyst
(Optional)**

EXTRA FEATURES (with optional Catalyst)

- * Will reduce float current by about 50%
- * Will reduce gassing by up to 80%
- * Will minimise water loss
- * Reduce cell failure due to dry out
- * Will extend battery float service life due to reduced plate corrosion
- * Batteries with Optional Catalyst will have full design life when used in temperatures up to 30C.
- * Will maintain full cell capacity by preventing depolarization of negative plate
- * Reduces the possibility of thermal runaway

SPECIFICATION

Nominal Voltage : 6-12 Volts
Plates: Extra Heavy Duty
Plate Alloy : Virgin Pure Lead/ 1.6% Tin
Post Seal : Triple Seal / barrier
Terminals : Copper Insert for SS bolts
Container / Cover : Flame Retardant ABS V-O
Operating temperature : -25 to +55 C
(However we recommend that the batteries be operated in the temperature range of 20 to 25C or 20 to 30C with Catalyst to obtain full life and optimum performance)

Safety Vent : Low Pressure Self-Sealing
Float Voltage : 2.25 Vpc
Charge Voltage: Up to 2.35 Vpc
Specific Gravity : 1.300
Standards : Manufactured to comply with BS EN 60896-2:1996 EUROBAT & UL Underwriters Laboratories
Rated non-spillable: by ICAO / IATA / DOT Definitions



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

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA AMPS @ 20 C.							END Volts / CELL	DISCHARGE DATA AMPERE HOURS @ 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	20	24	
6TUA 120	1.80	319	245	197	170	124	92.7	1.85	67.8	78.4	83.9	89.6	93.8	97.2	101	108	109	111	120	121	
	1.75	367	274	214	158	128	95.6	1.80	71.3	83.2	89.0	95.1	100	103	107	114	117	119	128	130	
	1.67	396	298	225	165	131	95.9	1.75	73.4	85.2	91.2	97.4	102	106	109	117	120	122	132	134	
6TUA 140	1.80	339	264	208	184	133	101	1.85	76.3	88.2	94.4	101	106	109	113	121	123	125	137	137	
	1.75	390	295	226	198	138	104	1.80	78.9	93.5	100	107	112	116	120	128	131	134	146	148	
	1.67	421	321	237	207	141	105	1.75	81.3	95.9	103	110	115	119	123	131	135	138	150	152	
6TUA 175	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	149	155	160	171	175	179	192	195	
	1.67	561	429	317	251	188	139	1.75	108	128	137	146	153	158	164	175	180	184	198	201	
6TUA 200	1.80	503	390	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	
6TUA 210	1.80	519	403	319	281	204	154	1.85	119	137	147	157	164	170	176	188	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	233	
12TUA 15	1.80	45.5	33.9	26.8	23.6	17.2	12.8	1.85	8.55	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	13.9	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	9.91	11.5	12.3	13.2	13.8	14.3	14.8	15.8	16.2	16.5	18.0	18.3	
12TUA 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	
12TUA 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	
12TUA 30	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	
12TUA 40	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	41.9	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	
12TUA 50	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	
12TUA 65	1.80	183	136	107	95	68.8	51.4	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	210	152	117	84.3	71.2	53.0	1.80	38.6	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	52.8	55.3	57.2	59.2	63.3	65.0	66.3	70.0	71.1	
12TUA 70	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	
12TUA 80	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	
12TUA 90	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	
12TUA 100	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	
12TUA 110	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	118	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	
12TUA 120	1.80	315	240	190	172	123	91.8	1.85	66.6	77.0	82.4	88.1	92.2	95.5	98.9	106	107	109	119	120	
	1.75	363	269	206	158	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	95.0	1.75	72.2	83.7	89.6	95.7	100	104	107	115	118	120	131	133	
12TUA 130	1.80	341	261	211	182	132	98.8	1.85	74.7	86.4	92.5	98.8	103	107	111	119	120	123	134	134	
	1.75	392	292	228	185	137	102	1.80	76.0	91.7	98.1	105	110	114	118	126	129	131	143	139	
	1.67	422	318	240	193	140	102	1.75	78.3	93.9	101	107	112	116	121	129	132	135	147	149	
12TUA 150	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									

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

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA AMPS @ 20 C.						END Volts / CELL	DISCHARGE DATA AMPS @ 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	20	24
6TUA 120	1.80	319	245	197	170	124	92.7	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	367	274	214	158	128	95.6	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	396	298	225	165	131	95.9	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
6TUA 140	1.80	339	264	208	184	133	101	1.85	76.3	58.8	47.2	33.6	26.4	21.9	18.9	15.1	12.3	10.4	6.83	5.71
	1.75	390	295	226	198	138	104	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	421	321	237	207	141	105	1.75	81.3	63.9	51.3	36.5	28.7	23.8	20.5	16.4	13.5	11.5	7.50	6.34
6TUA 175	1.80	452	351	278	245	178	135	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	520	394	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	429	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
6TUA 200	1.80	503	390	309	272	198	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	437	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	623	476	352	275	209	155	1.75	120	94.7	76.0	54.1	42.5	35.2	30.4	24.4	20.0	17.0	11.0	9.30
6TUA 210	1.80	519	403	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
12TUA 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
12TUA 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
12TUA 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
12TUA 30	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
12TUA 40	1.80	118	87.8	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	4.99	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	8.93	7.39	6.38	5.11	4.20	3.57	2.30	1.95
12TUA 50	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
12TUA 65	1.80	183	136	107	95	68.8	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	2.66
	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
12TUA 70	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
12TUA 80	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
12TUA 90	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
12TUA 100	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
12TUA 110	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	12.8	10.5	8.93	5.83	4.54
	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	9.18	6.00	5.08
12TUA 120	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	5.96	4.99
	1.75	363	269	206	158	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	55.8	44.8	31.9	25.1	20.8	17.9	14.4	11.8	10.0	6.55	5.54
12TUA 130	1.80	341	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	5.60
	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	6.22
12TUA 150	1.80	376	287	233	200	147	110	1.85	82.9	63.										

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

SEC Bloc AGM TYPE	END Volts / CELL	DISCHARGE DATA AMPS @ 20 C.						END Volts / CELL	DISCHARGE DATA Watts Per Cell @ 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	20	24
6TUA 120	1.80	543	445	363	315	232	176	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	608	494	401	340	245	184	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	681	548	444	368	258	192	1.75	134	108	87.6	62.7	49.5	41.2	35.6	28.6	23.5	20.1	13.1	11.1
6TUA 140	1.80	577	480	383	340	249	192	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	646	532	423	367	263	201	1.80	150	119	96.1	69.1	54.6	45.4	39.4	31.7	25.9	22.2	14.5	12.3
	1.67	723	591	468	397	278	210	1.75	151	121	98.5	70.5	55.7	46.3	40.1	32.2	26.5	22.6	14.8	12.6
6TUA 175	1.80	769	639	511	453	332	256	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	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	529	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
6TUA 200	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	21.8	18.4
6TUA 210	1.80	882	734	586	520	381	293	1.85	228	176	142	102	80.5	67.0	58.0	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	86.6	72.1	62.4	50.1	41.2	35.2	22.7	19.3
12TUA 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
12TUA 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
12TUA 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
12TUA 30	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
12TUA 40	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	37.8	30.6	21.9	17.3	14.4	12.5	10.0	8.23	7.03	4.55	3.85
12TUA 50	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
12TUA 65	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	6.38	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	241	204	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	5.86
12TUA 70	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
12TUA 80	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
12TUA 90	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
12TUA 100	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
12TUA 110	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	10.9	9.17
	1.75	578	456	363	314	226	168	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	176	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
12TUA 120	1.80	536	437	349	318	229	174	1.85	128	98.8	79.7	57.2	45.2	37.6	32.6	26.2	21.4	18.2	11.9	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	539	426	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
12TUA 130	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
12TUA 150	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	7																		

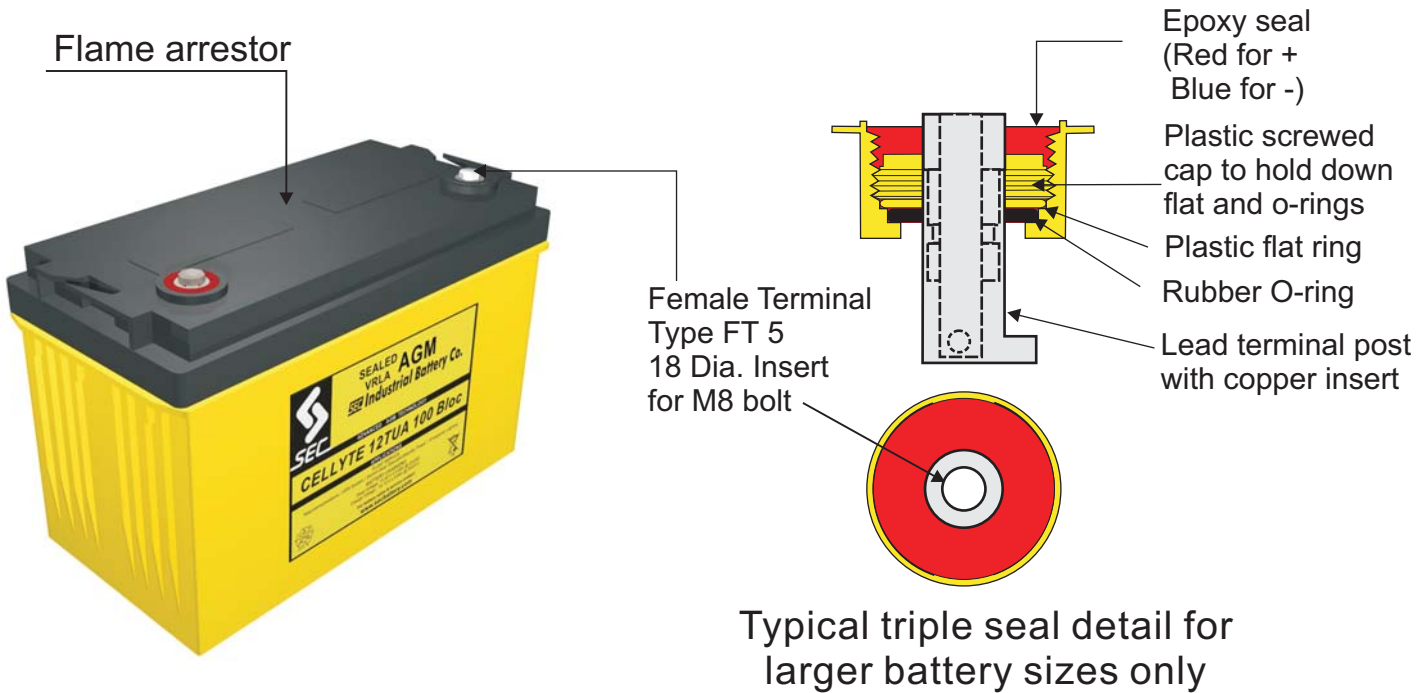
CELLYTE 6-12TUA Bloc Data & Dimensions

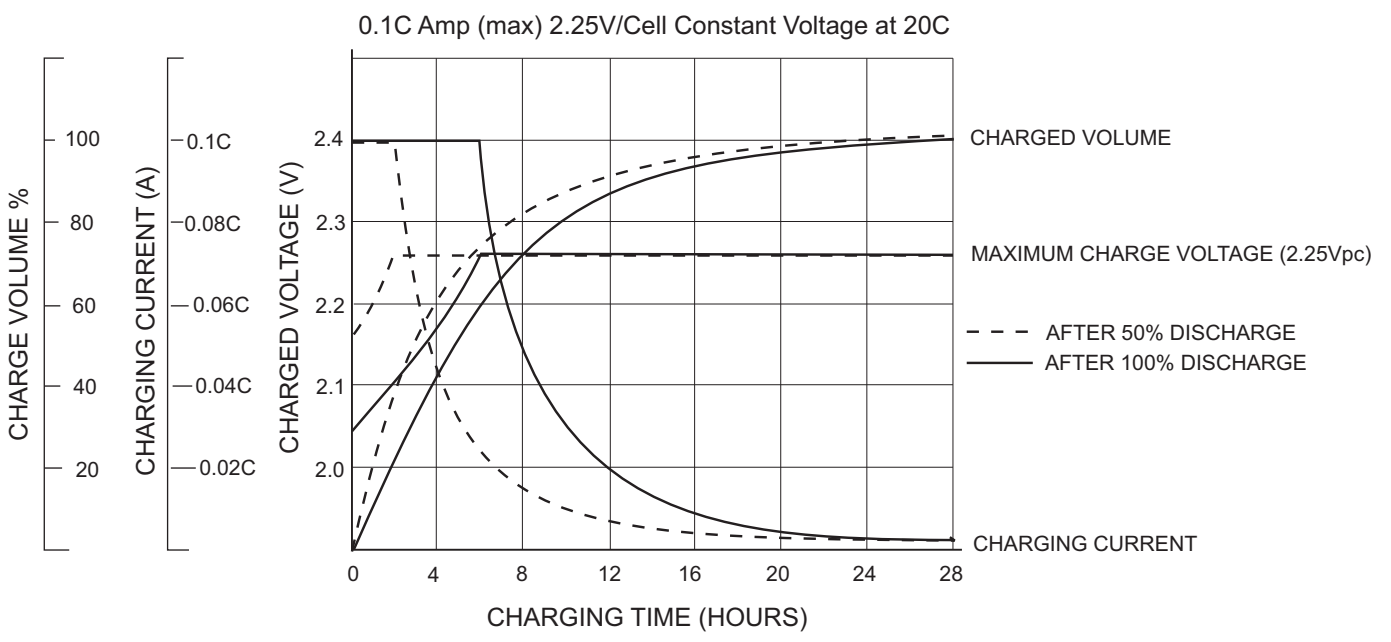
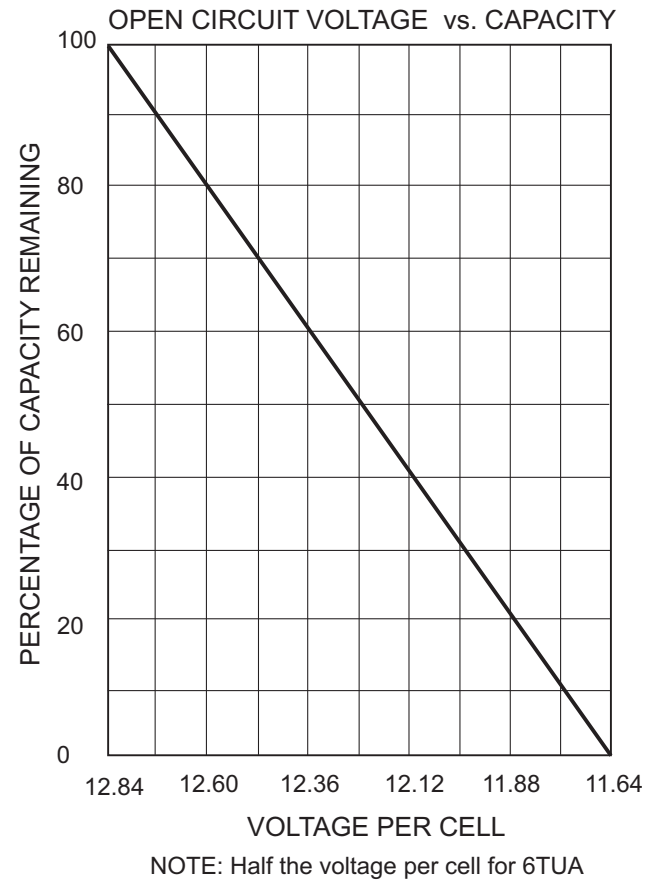
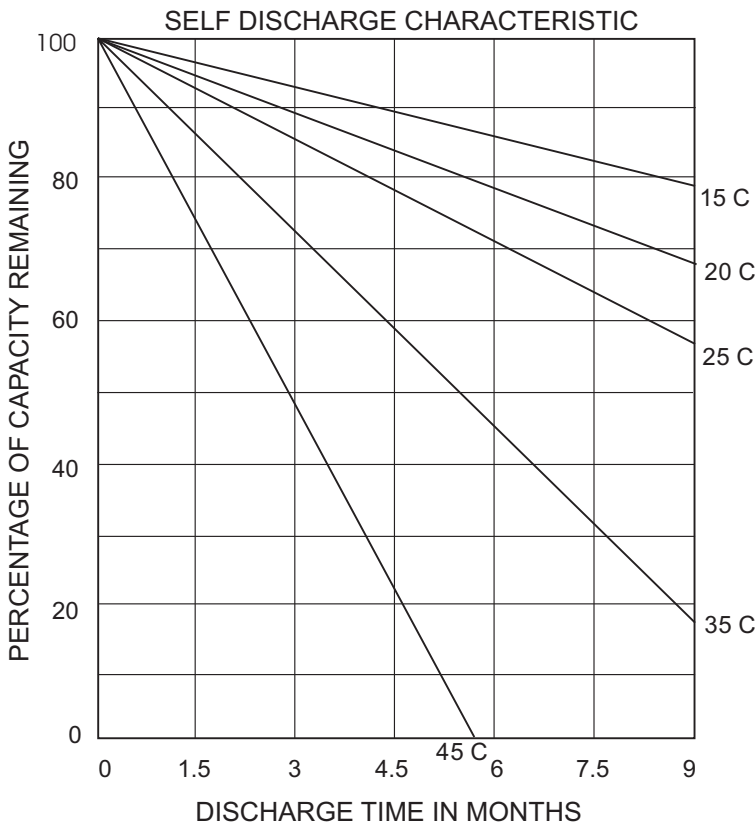
SEC Battery Type	Capacity C/20 1.75 vpc	CCA at -18 C 0 F.	CCA at 0 C. 32 F.	Short Circuit Amps	Internal Resistance m Ohms	Female Terminal Type	Battery Dimensions							
							Battery Weight		Length		Width		Height	
							KG	lbs	Inch	mm	Inch	mm	Inch	mm
6TUA 120	130	760	1010	3200	3.0	FT 4	16.0	35.2	7.72	196	6.69	170	8.27	210
6TUA 140	150	860	1120	3700	2.9	FT 5	19.0	41.8	10.2	260	7.09	180	9.72	247
6TUA 175	198	980	1290	4600	2.4	FT 5	26.0	57.2	12.0	306	6.61	168	8.66	220
6 TUA 200	220	1200	1600	5000	2.3	FT 5	31.5	69.3	12.7	323	7.01	178	8.82	224
6 TUA 210	230	1300	1740	5500	2.2	FT 5	35.0	77.0	9.57	243	7.40	188	10.8	275
12TUA 15	18	125	155	650	14	FT 2	6.00	13.2	7.09	180	5.16	76.0	6.61	168
12TUA 20	24	165	205	940	12	FT 3	8.52	18.7	6.50	165	4.92	125	6.93	176
12TUA 25	28	200	165	1220	8.2	FT 3	9.40	20.7	6.50	165	4.92	125	6.93	176
12TUA 30	34	240	320	1500	7.3	FT 3	10.5	23.1	7.72	196	5.16	131	6.34	161
12TUA 40	46	260	350	1700	6.0	FT 3	14.7	32.3	7.76	197	6.50	165	6.69	170
12 TUA 50	59	280	380	1900	5.6	FT 3	18.5	40.7	9.06	230	5.43	138	8.27	210
12 TUA 65	71	330	450	2000	5.5	FT 3	22.0	48.4	13.8	350	6.57	167	7.87	200
12TUA 70	77	410	550	2100	5.4	FT 3	25.7	56.5	10.2	259	6.65	169	8.46	215
12TUA 80	88	460	620	2400	4.5	FT 3	25.7	56.5	10.2	259	6.65	169	8.46	215
12TUA 90	100	510	680	2650	4.3	FT 4	28.0	61.6	12.1	307	6.69	170	8.46	215
12TUA 100	110	580	780	2900	3.9	FT 4	31.0	68.2	12.9	328	6.77	172	8.46	215
12TUA 110	121	710	960	3000	3.4	FT 4	31.5	69.3	12.9	328	6.81	173	8.46	215
12TUA 120	132	760	1020	3300	3.1	FT 4	32.5	71.5	16.1	409	6.89	175	9.06	230
12TUA 130	148	970	1300	4200	2.9	FT 5	42.0	92.4	13.5	342	6.81	173	11.2	285
12TUA 150	165	1060	1370	4500	2.8	FT 5	47.0	103	19.0	483	6.69	170	9.65	245
12TUA 160	176	1060	1370	4500	2.6	FT 5	52.0	114	20.9	530	8.23	209	8.86	225
12TUA 175	198	1100	1440	4700	2.3	FT 5	56.7	125	20.9	530	8.23	209	8.86	225
12TUA 200	220	1240	1670	5400	2.2	FT 5	63.0	139	20.6	522	9.45	240	8.86	225
12TUA 220	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.

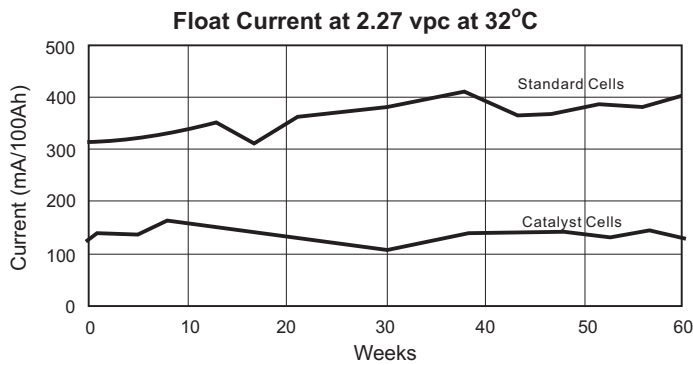
Applicable Standards

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





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 out has been predominant cause of customer dissatisfaction with VRLA technology.

* Increased life

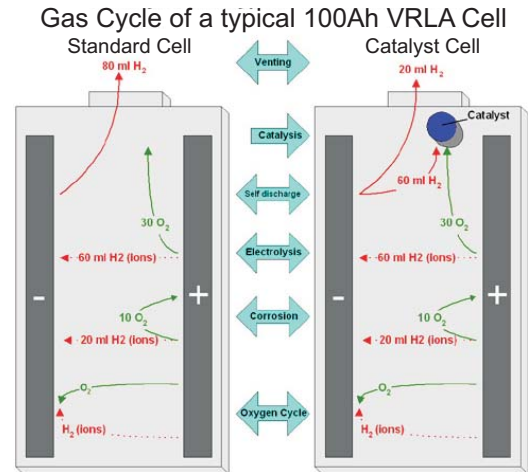
There are many potential failure modes of VRLA cells. A number of these failure modes can be mitigated by the catalyst technology such as: Cell dry out, positive plate corrosion, thermal runaway, capacity loss due to negative plate depolarization.

* 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.



How it works

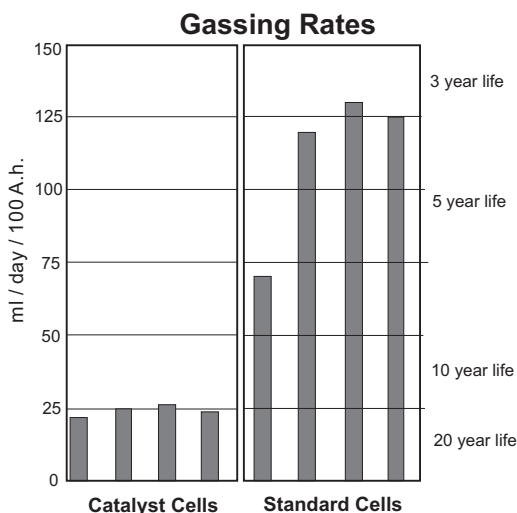
The VRLA cell was designed to correct all the problems of flooded technology. All the gas produced inside the cell was intended to recombine back into water on the negative plate in a very efficient oxygen cycle. In an ideal world there would be no negative plate self discharge, no positive plate corrosion and no excess charge current needed. Batteries would last forever and no gas would be released from the cell.

In the real world, chemistry dictates that negative plates do self-discharge and they do this more when impurities are present in higher quantities. In our experience the typical high quality, long life (20 yr) VRLA cell has a self discharge rate equivalent to 80 ml of Hydrogen gas per day per 100 Ah. Oxygen, produced from a variety of processes on the positive plate, will recombine with this hydrogen on the negative plate and cause it to depolarize.

In the real world positive grids also corrode. Designers have done what is typically done on flooded designs for long life and reduced the corrosion rate of the positive grid. Typical state of the art designs will only absorb 10 ml of oxygen on the positive plate instead of the 40 ml needed to counter act the hydrogen generated on the negative. This is the paradox of VRLA design. A "better" positive grid can actually impair the life of the design.

This leaves an unbalanced situation with a strongly depolarized negative plate. The charging system will compensate with more current which will lead to excessively high polarization on the positive plate and damaging effects on the cell due to the excess current. Electrolysis will generate high amounts of gas leading to water loss.

Adding a Microcat™ to the cell gives the battery designer a new tool to break out of the deadlock. The catalyst will absorb free oxygen in the headspace and recombine it with the abundant hydrogen always present in the cell. This drastically reduces the amount of gas venting from the cell, but most importantly this prevents oxygen from reaching the negative plate and buffers the negative plate self discharge reaction from the positive plate corrosion reaction. Now that the cell is in balance the negative remains charged. The charging system responds by only sending the small amount of current needed to keep the cell charged.



The Worlds First - Monobloc Catalyst Battery

SEC CELLYTE TUA Monobloc batteries are the first to use a CatVent Catalyst in the cell head space. This is done for several very good reasons. The Catalyst changes the electrochemical actions within the cell, this causes balance within the cell preventing the negative plate from depolarising over time and improves cell capacity. A healthy balance in the cell will be immediately obvious by a reduction of the cell's float current by up to 50%. What that means is a dramatic reduction, by up to 80% in cell gassing, reduced loss which delays cell dry out*, reduced positive plate corrosion, reduced cell heating, reducing the risk of thermal run away and a reduction in the energy required to cool the cells / batteries.

* Please note: Battery dry out is one of the major failure modes of VRLA batteries.

			
<p><i>CELLYTE 2CMT Modular</i></p>	<p><i>CELLYTE 2TLAM/G Tubular</i></p>	<p><i>CELLYTE 2CMT/2TLAM/G Range</i></p>	
			
<p><i>CELLYTE FTA/G Range</i></p>	<p><i>CELLYTE 6-12TLA Range</i></p>	<p><i>CELLYTE 6-12TUA Range</i></p>	<p><i>CELLYTE 6-12 TLA/G Range</i></p>
			
<p><i>CELLYTE 6-12TSG Range</i></p>	<p><i>MICROLYTE Plus AGM Range</i></p>	<p><i>MICROLYTE Red Top Range</i></p>	<p><i>CELLYTE 2TLA/G Range</i></p>
			
<p><i>SEC ETG OPzV Range</i></p>	<p><i>SEC Tubular OPzS Range</i></p>	<p><i>SEC Plante PS & PL Range</i></p>	<p><i>SEC Nickel-Cadmium Range</i></p>

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