

# CELLYTE 6-12 TLG GEL SERIES

## 6/12V MONOBLOC FLAT PLATE GEL BATTERY



SEC - 6/12 - TLG

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**SEC Industrial Battery Co. Ltd.**



# Battery Profile



## DESIGN LIFE

10 year design life in float service @ 20°C

15Ah-235Ah at C/10 to 1.80Vpc at 25°C.

500 Cycles for GEL

## MANUFACTURED TO COMPLY

IEC 60896-21/22-2004

BS 6290 Part 4

Eurobat

UL Component approval

ISO 9001:2000

ISO 14001:2004

## APPLICATIONS

Photovoltaic / Solar / Wind  
Telecommunications  
Cycling / Float Service  
Wheelchair / Electric Vehicle  
Boats/Marine/Navigational Aids  
Engine Starting  
Golf Caddy  
Portable Medical Equipment  
Cathodic Protection

## SPECIFICATIONS

Positive electrode:	Standard Calcium Grid Pasted Plate
Negative electrode:	Calcium Grid Plate
Float Voltage:	2.25 vpc $\pm$ 1% at 25°C
Max.Charge Voltage:	2.35 vpc $\pm$ 1% at 25°C
Container:	ABS grade as standard / flame retardant V-0 material as optional
Electrolyte:	Thixotropic GEL
Safety Valve:	1-3 PSI Self-Resealing
Separators:	Micro porous separator
Terminals:	Integral Copper Insert for Stainless Steel Bolt

## INNOVATIVE FEATURES

- Valve regulated
- Propriety virgin Pure Lead Alloy
- Latest plates formation technology
- Gelled Thixotropic Electrolyte
- Extended Cycle life and Capacity
- Never requires addition of water
- Spill proof and leak proof
- Very low gassing on float charge
- Explosion proof / Increased safety
- Low self-discharge
- Multicell container



# CAPACITY

Ampere Hour @ 25°C



SEC Bloc Type	End Volts /Cell	DISCHARGE DATA AMPS			End Volts /Cell	DISCHARGE DATA AMPERE HOURS at 25°C													
		DISCHARGE TIME IN MINUTES				DISCHARGE TIME IN HOURS													
		15mins	30mins	45mins		1hr	1.5hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr	24hr	48hr	72hr	100hr
6-TLG-130	1.80	159	102	76.2	1.85	63.0	64.6	72.5	78.5	82.4	85.4	88.2	96.8	98.3	100	113	118	122	126
	1.75	173	106	78.5	1.80	64.5	68.5	76.9	83.3	87.5	90.5	93.6	102	105	107	118	122	126	130
	1.67	182	108	78.9	1.75	65.0	70.2	78.8	85.2	89.6	92.9	96.0	105	108	110	122	125	129	133
6-TLG-220	1.80	265	170	127	1.85	105	108	121	131	137	142	147	161	164	167	188	196	203	210
	1.75	288	176	131	1.80	108	114	128	139	146	151	156	171	175	179	197	204	210	217
	1.67	303	180	131	1.75	108	117	131	142	149	155	160	175	180	184	203	209	215	221
6-TLG-250	1.80	305	196	146	1.85	121	124	139	150	158	164	169	185	188	192	216	226	234	242
	1.75	331	202	151	1.80	124	131	147	160	168	174	180	197	202	205	227	234	242	250
	1.67	348	207	151	1.75	125	135	151	164	172	178	184	202	207	211	233	240	247	255

12-TLG-20	1.80	22.6	14.5	10.8	1.85	8.90	9.10	10.3	11.1	11.7	12.1	12.5	13.7	13.9	14.2	16.0	16.7	17.3	17.9
	1.75	24.5	15.0	11.1	1.80	9.10	9.70	10.9	11.8	12.4	12.8	13.3	14.5	14.9	15.2	16.8	17.3	17.9	18.0
	1.67	25.7	15.3	11.2	1.75	9.20	9.90	11.2	12.1	12.7	13.2	13.6	14.9	15.3	15.6	17.3	17.7	18.0	18.8
12-TLG-30	1.80	34.5	22.1	16.5	1.85	13.6	14.0	15.7	17.0	17.9	18.5	19.1	21.0	21.3	21.7	24.4	25.4	26.4	27.0
	1.75	37.4	22.9	17.0	1.80	14.0	14.8	16.7	18.0	19.0	19.6	20.3	22.2	22.8	23.2	25.6	26.4	27.3	28.0
	1.67	39.3	23.4	17.1	1.75	14.1	15.2	17.1	18.5	19.4	20.1	20.8	22.8	23.4	23.9	26.4	27.1	28.0	28.8
12-TLG-40	1.80	41.2	26.4	19.7	1.85	16.3	16.7	18.7	20.3	21.3	22.1	22.8	25.0	25.4	25.9	29.0	30.2	31.5	32.6
	1.75	44.7	27.3	20.3	1.80	16.7	17.7	19.8	21.5	22.6	23.4	24.2	26.5	27.2	27.7	30.5	31.6	32.4	33.6
	1.67	46.9	27.9	20.4	1.75	16.8	18.1	20.4	22.0	23.2	24.0	24.8	27.2	27.9	28.4	31.4	32.2	33.1	34.0
12-TLG-50	1.80	55.8	35.7	26.7	1.85	22.0	22.6	25.4	27.5	28.9	29.9	31.0	33.8	34.4	35.0	39.4	41.2	42.5	44.0
	1.75	60.5	37.0	27.5	1.80	22.6	24.0	26.9	29.1	30.6	31.7	32.8	35.9	36.8	37.5	41.3	42.7	43.9	45.6
	1.67	63.6	37.8	27.6	1.75	22.7	24.6	27.6	29.9	31.4	32.5	33.6	36.8	37.8	38.5	42.6	43.7	45.2	46.0
12-TLG-60	1.80	73.0	46.8	34.9	1.85	28.9	29.6	33.2	36.0	37.8	39.2	40.5	44.3	45.0	45.9	51.6	53.8	55.9	57.8
	1.75	79.2	48.4	36.0	1.80	29.6	31.4	35.2	38.1	40.0	41.5	43.0	47.0	48.2	49.1	54.2	56.0	57.6	59.7
	1.67	83.2	49.5	36.1	1.75	29.8	32.2	36.1	39.0	41.1	42.6	44.0	48.2	49.5	50.5	55.8	57.4	59.0	60.9
12-TLG-70	1.80	86.3	55.3	41.3	1.85	34.1	35.0	39.2	42.5	44.7	46.3	47.9	52.4	53.2	54.2	61.0	63.8	66.1	68.0
	1.75	94.0	57.2	42.5	1.80	35.0	37.1	41.6	45.0	47.2	49.0	50.8	55.5	57.0	58.1	64.1	66.2	68.3	70.5
	1.67	98.0	58.5	42.7	1.75	35.2	38.0	42.7	46.2	48.4	50.3	52.1	57.0	58.5	59.6	66.0	67.7	69.8	72.0
12-TLG-80	1.80	92.9	59.5	44.4	1.85	36.7	37.7	42.3	45.8	48.0	49.8	51.6	56.5	57.3	58.4	65.7	68.6	71.2	73.6
	1.75	101	61.6	45.8	1.80	37.6	39.9	44.8	48.6	51.0	52.9	54.7	59.8	61.4	62.5	68.9	71.0	73.4	75.9
	1.67	106	63.0	46.0	1.75	37.9	41.0	46.0	49.8	52.3	54.0	56.1	61.4	63.0	64.3	71.0	73.0	75.3	77.0
12-TLG-90	1.80	106	68.0	50.8	1.85	42.0	43.1	48.4	52.2	54.8	57.0	58.8	64.5	65.5	66.8	75.1	78.5	81.3	84.0
	1.75	115	70.4	52.4	1.80	43.0	45.7	51.2	55.5	58.3	60.4	62.4	68.4	70.1	71.4	78.8	81.4	84.1	86.8
	1.67	121	71.9	52.6	1.75	43.3	46.8	52.6	56.9	59.6	61.9	64.1	70.1	72.0	73.4	81.1	83.5	86.0	88.6
12-TLG-100	1.80	119	76.5	57.1	1.85	47.2	48.4	54.4	58.8	61.9	64.0	66.3	72.6	73.7	75.2	84.5	88.3	92.1	96.0
	1.75	130	79.2	58.9	1.80	48.4	51.4	57.7	62.4	65.6	68.0	70.2	76.9	78.9	80.4	88.7	91.6	95.6	99.6
	1.67	136	80.9	59.1	1.75	48.7	52.7	59.1	63.9	67.2	69.5	72.0	78.9	81.0	82.6	91.4	94.0	97.2	101
12-TLG-110	1.80	133	85.0	63.5	1.85	52.5	53.8	60.4	65.4	68.7	71.0	73.7	80.6	81.9	83.5	93.8	97.9	102	105
	1.75	144	88.0	65.5	1.80	53.8	57.1	64.1	69.3	72.8	75.5	78.0	85.5	87.7	89.3	98.6	102	105	108
	1.67	151	89.9	65.7	1.75	54.1	58.5	65.7	71.1	74.7	77.4	80.1	87.7	90.0	91.8	102	104	107	111
12-TLG-120	1.80	146	93.5	69.8	1.85	57.7	59.2	66.4	72.0	75.6	78.3	81.0	88.7	90.1	91.9	103	108	112	116
	1.75	158	96.8	72.0	1.80	59.2	62.8	70.5	76.2	80.0	83.0	85.8	94.0	96.4	98.3	108	112	116	119
	1.67	166	98.9	72.3	1.75	59.6	64.4	72.2	78.2	82.0	85.0	88.1	96.4	99.0	101	112	115	118	122
12-TLG-130	1.80	159	102	76.2	1.85	63.0	64.6	72.5	78.5	82.4	85.4	88.2	96.8	98.3	100	113	118	122	126
	1.75	173	106	78.5	1.80	64.5	68.5	76.9	83.3	87.5	90.5	93.6	102	105	107	118	122	126	130
	1.67	182	108	78.9	1.75	65.0	70.2	78.8	85.2	89.6	92.9	96.0	105	108	110	122	125	129	133
12-TLG-150	1.80	181	116	86.3	1.85	71.4	73.2	82.2	89.0	93.5	96.8	100	110	111	114	128	133	138	143
	1.75	196	120	89.0	1.80	73.1	77.7	87.2	94.4	99.2	103	106	116	119	121	134	138	143	148
	1.67	206	122	89.4	1.75	73.6	79.5	89.4	96.6	102	105	109	119	122	125	138	142	146	151
12-TLG-170	1.80	202	129	96.5	1.85	79.8	81.8	91.8	99.0	104	108	112	122	124	127	143	149	155	160
	1.75	219	134	99.5	1.80	81.7	86.8	97.0	105	111	115	119	130	133	136	150	155	160	166
	1.67	230	137	100	1.75	82.3	88.9	99.8	108	114	118	122	133	137	139	154	159	163	168
12-TLG-190	1.80	227	145	109	1.85	89.7	92.0	103	112	118	122	126	138	140	143	161	168	174	180
	1.75	246	150	112	1.80	92.0	97.7	110	119	125	129	134	146	150	152	168	174	180	186
	1.67	259	154	112	1.75	92.6	100	112	122	128	132	137	150	154	157	174	179	184	190
12-TLG-210	1.80	252	162	121	1.85	99.7	102	115	124	130	135	140	153	156	158	178	186	193	200
	1.75	274	167	124	1.80	102	108	122	132	138	144	149	162	167	169	187	193	200	206
	1.67	288	171	125	1.75	103	111	125	135	142	147	152	166	171	174	193	198	204	211
12-TLG-250	1.80	305	196	146	1.85	121	124	139	150	158	164	169	185	188	192	216	226	234	242
	1.75	331	202	151	1.80	124	131	147	160	168	174	180	197	202	205	227	234	242	250
	1.67	348	207	151	1.75	125	135	151	164	172	178	184	202	207	211	233	240	248	255
12-TLG-300	1.80	356	228	170	1.85	141	144	162	175	184	191	197	216	219					

# CURRENT

Amps @ 25°C



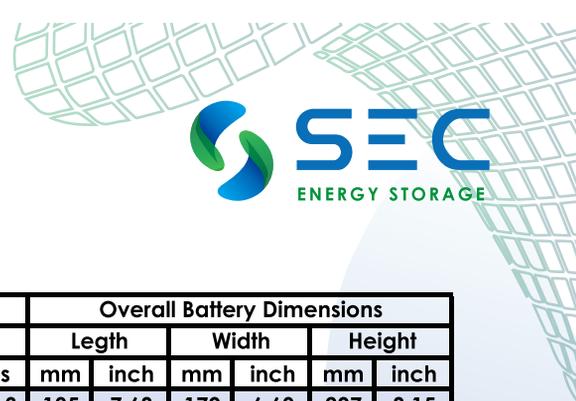
SEC	End Bloc	DISCHARGE DATA AMPS				End Volts	DISCHARGE DATA AMPS at 25°C														
		Type	/Cell	DISCHARGE TIME IN MINUTES			DISCHARGE TIME IN HOURS														
				15mins	30mins		45mins	1hr	1.5hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr	24hr	48hr	72hr	100hr
6-TLG-130	1.80	159	102	76.2	1.85	63.0	43.1	36.3	26.2	20.6	17.1	14.7	12.1	9.83	8.33	4.69	2.45	1.69	1.26		
	1.75	173	106	78.5	1.80	64.5	45.7	38.5	27.8	21.9	18.1	15.6	12.8	10.5	8.92	4.92	2.54	1.75	1.30		
	1.67	182	108	78.9	1.75	65.0	46.8	39.4	28.4	22.4	18.6	16.0	13.1	10.8	9.17	5.08	2.60	1.79	1.33		
6-TLG-220	1.80	265	170	127	1.85	105	71.8	60.4	43.6	34.3	28.4	24.5	20.1	16.4	13.9	7.82	4.08	2.82	2.10		
	1.75	288	176	131	1.80	108	76.0	64.0	46.3	36.5	30.2	26.0	21.4	17.5	14.9	8.21	4.24	2.92	2.17		
	1.67	303	180	131	1.75	108	78.0	65.5	47.3	37.3	31.0	26.7	21.9	18.0	15.3	8.46	4.35	2.99	2.21		
6-TLG-250	1.80	305	196	146	1.85	121	82.5	69.5	50.0	39.5	32.8	28.2	23.1	18.8	16.0	9.00	4.70	3.25	2.42		
	1.75	331	202	151	1.80	124	87.3	73.5	53.2	41.9	34.7	30.0	24.6	20.2	17.1	9.44	4.88	3.36	2.50		
	1.67	348	207	151	1.75	125	89.7	75.5	54.5	43.0	35.6	30.7	25.2	20.7	17.6	9.71	5.00	3.43	2.55		

12-TLG-20	1.80	22.6	14.5	10.8	1.85	8.90	6.07	5.14	3.70	2.92	2.42	2.08	1.71	1.39	1.18	0.67	0.35	0.24	0.18
	1.75	24.5	15.0	11.1	1.80	9.10	6.47	5.45	3.93	3.10	2.56	2.22	1.81	1.49	1.27	0.70	0.36	0.25	0.18
	1.67	25.7	15.3	11.2	1.75	9.20	6.60	5.60	4.03	3.17	2.63	2.27	1.86	1.53	1.30	0.72	0.37	0.25	0.19
12-TLG-30	1.80	34.5	22.1	16.5	1.85	13.6	9.33	7.85	5.67	4.47	3.70	3.19	2.62	2.13	1.81	1.02	0.53	0.37	0.27
	1.75	37.4	22.9	17.0	1.80	14.0	9.87	8.34	6.00	4.74	3.92	3.38	2.78	2.28	1.93	1.07	0.55	0.38	0.28
	1.67	39.3	23.4	17.1	1.75	14.1	10.1	8.54	6.16	4.85	4.02	3.47	2.85	2.34	1.99	1.10	0.56	0.39	0.29
12-TLG-40	1.80	41.2	26.4	19.7	1.85	16.3	11.1	9.35	6.76	5.33	4.41	3.80	3.13	2.54	2.16	1.21	0.63	0.44	0.33
	1.75	44.7	27.3	20.3	1.80	16.7	11.8	9.90	7.17	5.65	4.68	4.03	3.31	2.72	2.31	1.27	0.66	0.45	0.34
	1.67	46.9	27.9	20.4	1.75	16.8	12.1	10.2	7.33	5.79	4.80	4.13	3.40	2.79	2.37	1.31	0.67	0.46	0.34
12-TLG-50	1.80	55.8	35.7	26.7	1.85	22.0	15.1	12.7	9.16	7.22	5.98	5.16	4.23	3.44	2.92	1.64	0.86	0.59	0.44
	1.75	60.5	37.0	27.5	1.80	22.6	16.0	13.5	9.70	7.65	6.34	5.47	4.49	3.68	3.13	1.72	0.89	0.61	0.46
	1.67	63.6	37.8	27.6	1.75	22.7	16.4	13.8	10.0	7.84	6.50	5.60	4.60	3.78	3.21	1.78	0.91	0.63	0.46
12-TLG-60	1.80	73.0	46.8	34.9	1.85	28.9	19.7	16.6	12.0	9.45	7.83	6.75	5.54	4.50	3.83	2.15	1.12	0.78	0.58
	1.75	79.2	48.4	36.0	1.80	29.6	20.9	17.6	12.7	10.0	8.30	7.17	5.88	4.82	4.09	2.26	1.17	0.80	0.60
	1.67	83.2	49.5	36.1	1.75	29.8	21.5	18.1	13.0	10.3	8.51	7.34	6.03	4.95	4.21	2.33	1.20	0.82	0.61
12-TLG-70	1.80	86.3	55.3	41.3	1.85	34.1	23.3	19.6	14.2	11.2	9.26	7.98	6.55	5.32	4.52	2.54	1.33	0.92	0.68
	1.75	94.0	57.2	42.5	1.80	35.0	24.7	20.8	15.0	11.8	9.80	8.47	6.94	5.70	4.84	2.67	1.38	0.95	0.71
	1.67	98.0	58.5	42.7	1.75	35.2	25.3	21.4	15.4	12.1	10.1	8.68	7.12	5.85	4.97	2.75	1.41	0.97	0.72
12-TLG-80	1.80	92.9	59.5	44.4	1.85	36.7	25.1	21.2	15.3	12.0	10.0	8.60	7.06	5.73	4.87	2.74	1.43	0.99	0.74
	1.75	101	61.6	45.8	1.80	37.6	26.6	22.4	16.2	12.8	10.6	9.12	7.48	6.14	5.21	2.87	1.48	1.02	0.76
	1.67	106	63.0	46.0	1.75	37.9	27.3	23.0	16.6	13.1	10.8	9.35	7.67	6.30	5.36	2.96	1.52	1.05	0.77
12-TLG-90	1.80	106	68.0	50.8	1.85	42.0	28.7	24.2	17.4	13.7	11.4	9.80	8.06	6.55	5.57	3.13	1.64	1.13	0.84
	1.75	115	70.4	52.4	1.80	43.0	30.5	25.6	18.5	14.6	12.1	10.4	8.55	7.01	5.95	3.28	1.70	1.17	0.87
	1.67	121	71.9	52.6	1.75	43.3	31.2	26.3	19.0	14.9	12.4	10.7	8.76	7.20	6.12	3.38	1.74	1.19	0.89
12-TLG-100	1.80	119	76.5	57.1	1.85	47.2	32.3	27.2	19.6	15.5	12.8	11.1	9.07	7.37	6.27	3.52	1.84	1.28	0.96
	1.75	130	79.2	58.9	1.80	48.4	34.3	28.9	20.8	16.4	13.6	11.7	9.61	7.89	6.70	3.70	1.91	1.33	1.00
	1.67	136	80.9	59.1	1.75	48.7	35.1	29.6	21.3	16.8	13.9	12.0	9.86	8.10	6.88	3.81	1.96	1.35	1.01
12-TLG-110	1.80	133	85.0	63.5	1.85	52.5	35.9	30.2	21.8	17.2	14.2	12.3	10.1	8.19	6.96	3.91	2.04	1.41	1.05
	1.75	144	88.0	65.5	1.80	53.8	38.1	32.1	23.1	18.2	15.1	13.0	10.7	8.77	7.44	4.11	2.12	1.46	1.08
	1.67	151	89.9	65.7	1.75	54.1	39.0	32.9	23.7	18.7	15.5	13.4	11.0	9.00	7.65	4.23	2.17	1.49	1.11
12-TLG-120	1.80	146	93.5	69.8	1.85	57.7	39.5	33.2	24.0	18.9	15.7	13.5	11.1	9.01	7.66	4.29	2.25	1.55	1.16
	1.75	158	96.8	72.0	1.80	59.2	41.9	35.3	25.4	20.0	16.6	14.3	11.8	9.64	8.19	4.50	2.33	1.61	1.19
	1.67	166	98.9	72.3	1.75	59.6	42.9	36.1	26.1	20.5	17.0	14.7	12.1	9.90	8.42	4.65	2.39	1.64	1.22
12-TLG-130	1.80	159	102	76.2	1.85	63.0	43.1	36.3	26.2	20.6	17.1	14.7	12.1	9.83	8.33	4.69	2.45	1.69	1.26
	1.75	173	106	78.5	1.80	64.5	45.7	38.5	27.8	21.9	18.1	15.6	12.8	10.5	9.73	4.92	2.54	1.75	1.30
	1.67	182	108	78.9	1.75	65.0	46.8	39.4	28.4	22.4	18.6	16.0	13.1	10.8	10.0	5.08	2.60	1.79	1.33
12-TLG-150	1.80	181	116	86.3	1.85	71.4	48.8	41.1	29.7	23.4	19.4	16.7	13.7	11.1	9.47	5.32	2.77	1.92	1.43
	1.75	196	120	89.0	1.80	73.1	51.8	43.6	31.5	24.8	20.5	17.7	14.5	11.9	10.1	5.58	2.88	1.99	1.48
	1.67	206	122	89.4	1.75	73.6	53.0	44.7	32.2	25.4	21.0	18.2	14.9	12.2	10.4	5.75	2.96	2.03	1.51
12-TLG-170	1.80	202	129	96.5	1.85	79.8	54.5	45.9	33.0	26.0	21.6	18.7	15.3	12.4	10.6	5.95	3.10	2.15	1.60
	1.75	219	134	99.5	1.80	81.7	57.9	48.5	35.0	27.7	23.0	19.8	16.2	13.3	11.3	6.24	3.22	2.22	1.66
	1.67	230	137	100	1.75	82.3	59.3	49.9	36.0	28.4	23.5	20.3	16.6	13.7	11.6	6.42	3.31	2.26	1.68
12-TLG-190	1.80	227	145	109	1.85	89.7	61.3	51.5	37.3	29.4	24.4	21.0	17.2	14.0	11.9	6.69	3.50	2.42	1.80
	1.75	246	150	112	1.80	92.0	65.1	54.8	39.6	31.2	25.8	22.3	18.3	15.0	12.7	7.02	3.63	2.50	1.86
	1.67	259	154	112	1.75	92.6	66.7	56.0	40.5	31.9	26.4	22.8	18.7	15.4	13.1	7.23	3.72	2.56	1.90
12-TLG-210	1.80	252	162	121	1.85	99.7	68.0	57.4	41.3	32.6	27.0	23.3	19.1	15.6	13.2	7.42	3.88	2.68	2.00
	1.75	274	167	124	1.80	102	72.0	60.9	43.9	34.6	28.7	24.8	20.3	16.7	14.1	7.79	4.02	2.78	2.06
	1.67	288	171	125	1.75	103	74.0	62.4	45.0	35.5	29.4	25.3	20.8	17.1	14.5	8.04	4.13	2.84	2.11
12-TLG-250	1.80	305	196	146	1.85	121	82.5	69.5	50.0	39.5	32.8	28.2	23.1	18.8	16.0	9.00	4.70	3.25	2.42
	1.75	331	202	151	1.80	124	87.3	73.5	53.2	41.9	34.7	30.0	24.6	20.2	17.1	9.44	4.88	3.36	2.50
	1.67	3																	

SEC Bloc Type	End Volts /Cell	DISCHARGE DATA WATTS/CELL				End Volts /Cell	DISCHARGE DATA WATTS/CELL at 25°C													
		DISCHARGE TIME IN MINUTES			45mins		DISCHARGE TIME IN HOURS													
		15mins	30mins	45mins			1hr	1.5hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr	24hr	48hr	72hr	100hr
6-TLG-130	1.80	294	191	143	1.85	121	82.9	70.1	51.0	40.4	33.6	29.1	24.0	19.6	16.7	9.41	4.92	3.39	2.57	
	1.75	311	193	145	1.80	122	87.2	73.8	53.8	42.7	35.5	30.7	25.3	20.8	17.7	9.83	5.08	3.50	2.64	
	1.67	319	194	144	1.75	121	88.2	74.8	54.5	43.3	36.1	31.2	25.7	21.3	18.1	10.1	5.17	3.55	2.70	
6-TLG-220	1.80	490	319	239	1.85	201	138	117	85.0	67.2	55.9	48.4	40.0	32.7	27.8	15.7	8.20	5.66	4.28	
	1.75	518	321	242	1.80	205	145	123	89.7	71.2	59.2	51.1	42.3	34.7	29.6	16.4	8.48	5.83	4.41	
	1.67	530	324	240	1.75	201	147	124	90.8	72.0	60.2	52.0	42.9	35.4	30.2	16.8	8.64	5.93	4.49	
6-TLG-250	1.80	564	368	275	1.85	231	159	134	97.5	77.5	64.6	55.7	45.9	37.5	32.0	18.1	9.43	6.52	4.93	
	1.75	596	369	279	1.80	235	167	141	103	81.7	68.0	59.0	48.6	40.1	34.0	18.9	9.75	6.72	5.09	
	1.67	609	373	276	1.75	233	169	143	105	83.1	69.1	59.8	49.4	40.7	34.7	19.3	9.93	6.81	5.18	

12-TLG-20	1.80	41.8	27.2	20.3	1.85	17.0	11.7	9.9	7.2	5.7	4.77	4.12	3.40	2.77	2.36	1.34	0.70	0.48	0.36
	1.75	44.1	27.4	20.5	1.80	17.2	12.3	10.5	7.6	6.0	5.02	4.36	3.58	2.96	2.52	1.40	0.72	0.50	0.37
	1.67	45.0	27.5	20.5	1.75	17.2	12.4	10.6	7.7	6.1	5.11	4.42	3.65	3.01	2.56	1.43	0.73	0.50	0.38
12-TLG-30	1.80	63.8	41.5	31.1	1.85	26.0	18.0	15.2	11.0	8.8	7.29	6.31	5.21	4.25	3.61	2.04	1.06	0.74	0.55
	1.75	67.3	41.8	31.4	1.80	26.5	18.8	16.0	11.6	9.2	7.68	6.65	5.49	4.52	3.85	2.13	1.10	0.76	0.57
	1.67	68.8	42.1	31.3	1.75	26.3	19.0	16.2	11.8	9.4	7.81	6.76	5.59	4.61	3.93	2.18	1.12	0.77	0.58
12-TLG-40	1.80	76.2	49.6	37.1	1.85	31.2	21.4	18.1	13.2	10.4	8.69	7.51	6.21	5.06	4.31	2.43	1.26	0.88	0.66
	1.75	80.5	49.8	37.5	1.80	31.6	22.5	19.0	13.9	11.0	9.17	7.93	6.54	5.40	4.59	2.54	1.32	0.90	0.68
	1.67	82.1	50.2	37.3	1.75	31.3	22.7	19.4	14.1	11.2	9.32	8.06	6.66	5.49	4.68	2.60	1.33	0.91	0.69
12-TLG-50	1.80	103	67.0	50.2	1.85	42.1	29.0	24.5	17.9	14.2	11.8	10.2	8.41	6.86	5.84	3.29	1.72	1.18	0.90
	1.75	109	67.5	50.7	1.80	42.8	30.5	25.8	18.8	14.9	12.4	10.7	8.87	7.30	6.22	3.44	1.78	1.22	0.93
	1.67	111	68.0	50.5	1.75	42.3	30.9	26.2	19.1	15.1	12.6	10.9	9.02	7.44	6.33	3.53	1.81	1.25	0.93
12-TLG-60	1.80	135	87.8	65.7	1.85	55.3	37.9	32.1	23.4	18.5	15.4	13.3	11.0	8.97	7.65	4.32	2.25	1.56	1.18
	1.75	143	88.3	66.4	1.80	56.1	39.9	33.8	24.6	19.5	16.3	14.1	11.6	9.56	8.14	4.52	2.33	1.60	1.21
	1.67	146	89.1	66.1	1.75	55.6	40.5	34.3	24.9	19.9	16.5	14.3	11.8	9.74	8.30	4.62	2.37	1.63	1.24
12-TLG-70	1.80	160	104	77.7	1.85	65.2	44.8	37.9	27.6	21.9	18.2	15.8	13.0	10.6	9.04	5.10	2.67	1.84	1.39
	1.75	169	104	78.4	1.80	66.3	47.2	39.9	29.1	23.0	19.2	16.6	13.7	11.3	9.63	5.34	2.76	1.90	1.43
	1.67	172	105	78.1	1.75	65.6	47.8	40.5	29.5	23.4	19.5	16.9	14.0	11.5	9.81	5.46	2.80	1.93	1.46
12-TLG-80	1.80	172	112	83.6	1.85	70.2	48.3	40.9	29.8	23.5	19.6	17.0	14.0	11.4	9.74	5.49	2.87	1.98	1.50
	1.75	182	112	84.5	1.80	71.2	50.8	43.0	31.4	24.9	20.7	17.9	14.8	12.2	10.4	5.74	2.96	2.04	1.54
	1.67	186	113	84.2	1.75	70.7	51.5	43.7	31.8	25.3	21.0	18.2	15.0	12.4	10.6	5.88	3.02	2.08	1.56
12-TLG-90	1.80	196	128	95.6	1.85	80.3	55.2	46.8	33.9	26.9	22.5	19.4	16.0	13.1	11.1	6.28	3.28	2.27	1.71
	1.75	207	128	96.7	1.80	81.4	58.2	49.2	35.8	28.4	23.7	20.4	16.9	13.9	11.8	6.57	3.39	2.34	1.77
	1.67	212	129	96.3	1.75	80.8	58.8	49.9	36.4	28.8	24.0	20.8	17.2	14.2	12.1	6.71	3.45	2.37	1.80
12-TLG-100	1.80	220	144	107	1.85	90.3	62.1	52.6	38.2	30.4	25.2	21.8	18.0	14.7	12.5	7.06	3.69	2.57	1.96
	1.75	234	145	109	1.80	91.7	65.4	55.4	40.3	32.0	26.6	23.0	19.0	15.7	13.3	7.39	3.82	2.66	2.03
	1.67	238	146	108	1.75	90.8	66.2	56.1	40.9	32.5	27.0	23.4	19.3	15.9	13.6	7.56	3.89	2.68	2.05
12-TLG-110	1.80	246	160	120	1.85	100	69.0	58.4	42.5	33.7	28.0	24.3	20.0	16.3	13.9	7.85	4.09	2.83	2.14
	1.75	259	161	121	1.80	102	72.7	61.5	44.7	35.5	29.6	25.6	21.1	17.4	14.8	8.22	4.24	2.92	2.20
	1.67	264	162	120	1.75	101	73.5	62.3	45.5	36.1	30.1	26.0	21.5	17.7	15.1	8.40	4.30	2.96	2.25
12-TLG-120	1.80	270	175	131	1.85	110	75.9	64.2	46.8	37.1	30.9	26.7	22.0	18.0	15.3	8.61	4.52	3.11	2.36
	1.75	284	177	133	1.80	112	79.9	67.7	49.2	39.0	32.5	28.1	23.2	19.1	16.3	9.00	4.66	3.22	2.42
	1.67	291	178	132	1.75	111	80.9	68.5	50.0	39.6	33.0	28.6	23.6	19.5	16.6	9.23	4.75	3.25	2.48
12-TLG-130	1.80	294	191	143	1.85	121	82.9	70.1	51.0	40.4	33.6	29.1	24.0	19.6	18.2	9.41	4.92	3.39	2.57
	1.75	311	193	145	1.80	122	87.2	73.8	53.8	42.7	35.5	30.7	25.3	20.8	19.4	9.83	5.08	3.50	2.64
	1.67	319	194	144	1.75	121	88.2	74.8	54.5	43.3	36.1	31.2	25.7	21.3	19.7	10.1	5.17	3.55	2.70
12-TLG-150	1.80	335	218	162	1.85	137	93.9	79.4	57.8	45.9	38.1	33.0	27.2	22.1	18.9	10.7	5.56	3.85	2.91
	1.75	353	219	164	1.80	138	98.9	83.7	61.0	48.4	40.2	34.7	28.7	23.6	20.1	11.2	5.75	3.97	3.01
	1.67	361	220	164	1.75	137	99.9	84.8	61.8	49.1	40.8	35.4	29.2	24.0	20.5	11.4	5.88	4.03	3.07
12-TLG-170	1.80	374	242	182	1.85	153	105	88.7	64.3	51.0	42.6	36.9	30.4	24.7	21.2	11.9	6.23	4.32	3.26
	1.75	394	245	184	1.80	155	110	93.1	67.8	54.0	45.1	38.9	32.0	26.4	22.5	12.5	6.44	4.44	3.38
	1.67	403	247	183	1.75	153	112	94.7	69.0	54.9	45.6	39.6	32.6	27.0	22.9	12.7	6.57	4.50	3.41
12-TLG-190	1.80	420	272	205	1.85	172	118	99.5	72.7	57.7	48.1	41.5	34.2	27.9	23.8	13.4	7.02	4.85	3.67
	1.75	443	274	207	1.80	174	124	105	76.7	60.8	50.5	43.8	36.1	29.8	25.3	14.0	7.25	5.00	3.78
	1.67	453	277	205	1.75	173	126	106	77.7	61.6	51.3	44.4	36.7	30.3	25.8	14.4	7.39	5.08	3.86
12-TLG-210	1.80	466	304	228	1.85	191	131	111	80.6	64.0	53.2	46.1	38.0	31.1	26.4	14.9	7.78	5.38	4.07
	1.75	493	305	229	1.80	193	137	117	85.0	67.5	56.2	48.8	40.0	33.1	28.0	15.6	8.04	5.56	4.19
	1.67	504	308	229	1.75	192	139	118	86.3	68.6	57.1	49.4	40.8	33.7	28.6	16.0	8.19	5.64	4.28
12-TLG-250	1.80	564	368	275	1.85	231	159	134	97.5	77.5	64.6	55.7	45.9	37.5	32.0	18.1	9.43	6.52	4.93
	1.75	596	369	279	1.80	235	167	141	103	81.7	68.0	59.0	48.6	40.1	34.0	18.9	9.75	6.72	5.09
	1.67	609	373	276	1.75	233	169	143	105	83.1	69.1	59							

# DIMENSIONS



## Dimensions, Weights, Data

SEC Bloc Type	Nominal Capacity(Ah) 1.80vpc	Short Circuit Amps	Internal Resistance mΩ	Maximum Charge Current(A)	Female Terminal Type	Battery Weight		Overall Battery Dimensions					
								Legth		Width		Height	
						kg	lbs	mm	inch	mm	inch	mm	inch
6-TLG-130	105	3200	3.00	21	FT 4	16.0	35.3	195	7.68	170	6.69	207	8.15
6-TLG-220	175	5000	2.30	35	FT 5	31.5	69.4	323	12.7	178	7.01	235	9.25
6-TLG-250	202	5400	2.10	40	FT 5	33.0	72.8	243	9.57	188	7.40	275	10.8
12-TLG20	14.9	750	12.00	3	FT 3	6.00	13.2	180	7.09	76	2.99	168	6.61
12-TLG-30	22.8	1100	8.20	5	FT 3	10.0	22.0	165	6.50	127	5.00	176	6.93
12-TLG-40	27.2	1500	7.30	5	FT 3	11.0	24.3	196	7.72	131	5.16	161	6.34
12-TLG-50	36.8	1700	6.00	7	FT 3	14.8	32.6	197	7.76	166	6.54	170	6.69
12--TLG-60	46.2	1900	5.60	9	FT 3	19.0	41.9	229	9.02	138	5.43	214	8.43
12-TLG-70	57.0	2000	5.50	11	FT 3	22.5	49.6	350	13.8	168	6.61	179	7.05
12-TLG-80	61.4	2100	5.40	12	FT 3	25.5	56.2	259	10.2	168	6.61	215	8.46
12-TLG-90	70.1	2400	4.50	14	FT 3	26.5	58.4	259	10.2	168	6.61	215	8.46
12-TLG-100	78.9	2650	4.30	16	FT 3	30.5	67.2	307	12.1	169	6.65	215	8.46
12-TLG-110	87.7	2900	3.90	18	FT 4	32.5	71.7	330	13.0	170	6.69	215	8.46
12-TLG-120	96.4	3000	3.40	19	FT 4	34.0	75.0	339	13.3	173	6.81	225	8.86
12-TLG-130	105	3300	3.10	21	FT 4	36.0	79.4	339	13.3	173	6.81	225	8.86
12-TLG-150	119	4200	2.90	24	FT 4	42.5	93.7	342	13.5	173	6.81	285	11.2
12-TLG-170	133	4500	2.70	27	FT 5	48.5	107	483	19.0	170	6.69	241	9.49
12-TLG-190	150	4600	2.50	30	FT 5	57.0	126	530	20.9	209	8.23	225	8.86
12-TLG-210	167	4700	2.30	33	FT 5	60.0	132	530	20.9	209	8.23	225	8.86
12-TLG-250	202	5400	2.20	40	FT 5	66.0	146	522	20.6	240	9.45	225	8.86
12-TLG-300	235	6050	2.10	47	FT 5	80.5	177	522	20.6	269	10.6	220	8.66

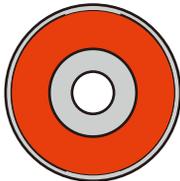
Actual dimension may be ± 5% from the figure shown. 6-TLG-130 / 6-TLG-220 do not filled with GEL electrolyte.

FT3 = 6 mm Female Terminal = 14mm with M6 Bolt

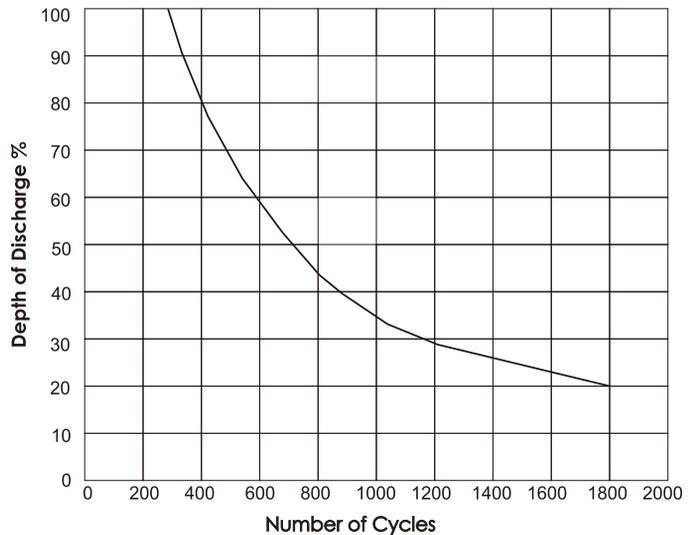
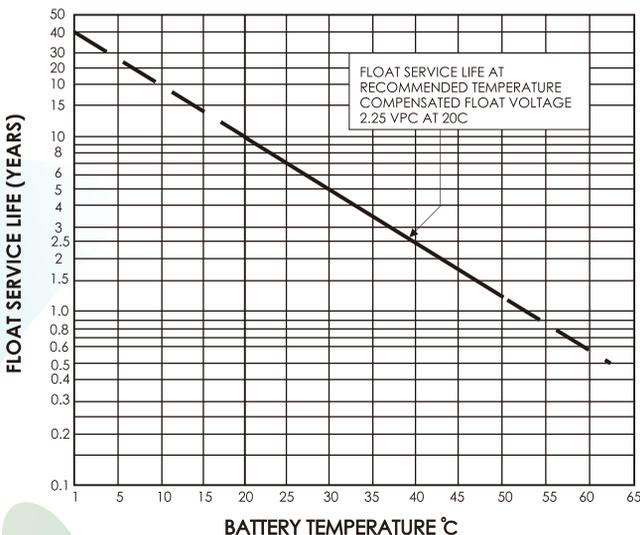
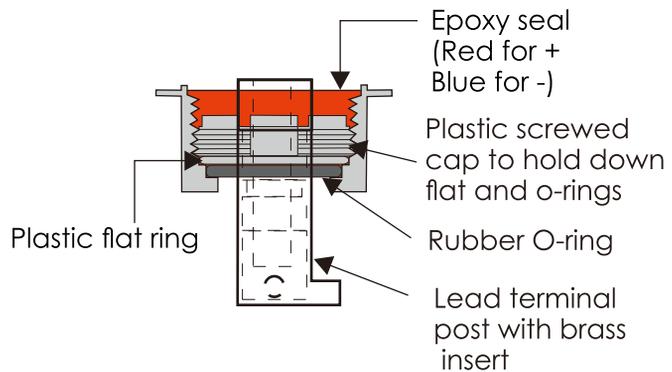
FT4 = 6 mm Female Terminal = 16mm with M6 Bolt

FT5 = 8 mm Female Terminal = 16mm with M8 Bolt

Female terminal inserts



TYPICAL TRIPLE SEAL DETAIL

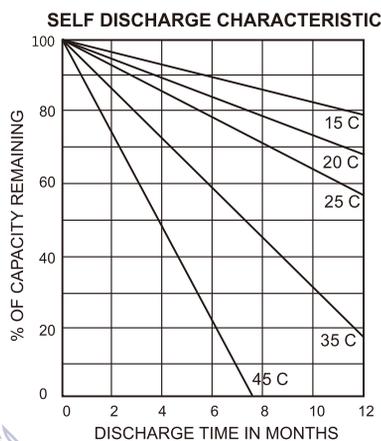


## CELLYTE 6-12 TLG Flat Plate GEL Batteries

SEC batteries have been used in the industrial battery market for over 30 years. SEC's high quality, 10 year design life, reliable GEL technology sealed valve regulated lead acid batteries have a proven record and we have now extended our range of 12TLG batteries to include larger sizes. New features include handles for easy lifting, brass insert terminals for higher current capacity and reduce damage during transportation, designed to comply with EUROBAT (IEC 60896-2), IEEE, JIS and BS 6290 Part 4, using UL certified components.

- \* **Valve Regulated (Sealed) Construction**  
The battery is of the GEL (gelled electrolyte technology), valve regulated (sealed) VRLA rechargeable type. The acid is immobilized in a specially formulated mixture of gelling agent and sulphuric acid electrolyte. All the acid is absorbed in this manner and it 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 during the life of the battery. There is no requirement to add water or take time consuming specific gravity readings.
- \* **Battery Life - Float Service**  
The SEC TLG battery is suitable for float (standby) service with life of 10 years at 20-25°C.
- \* **Battery Life - Cycle Service**  
The SEC TLG battery is designed for 500-3700 charge/discharge cycles, actual quantity will depend on the depth of discharge.
- \* **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. However for maximum life and safety, continuous operation over 45°C is not recommended for any VRLA battery.
- \* **Grid Design and Paste Formulation**  
SEC has optimized the grid design and paste formulation to maximize the opening 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
  - Adequate safety margins in tough operating conditions
- \* **Use In Any Position**  
The SEC TLG battery is designed to use in horizontal and vertical positions.
- \* **Central Manifold Gassing System**  
The 12-TLG-60, 12-TLG-90, and 12-TLG-110 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 flame retardant V-0 case and cover material, batteries are available to meet BS 6290 Part 4.

These features make the SEC CELLYTE 6-12 TLG Flat Plate GEL batteries suitable for renewable energy deep cycle applications.



<b>Battery Cyclic Charging</b> (Temperature compensation)	
Temperature Deg.C	Charge Volts/Cell
10	2.350
15	2.325
20	Baseline 2.300
25	2.275
30	2.250
35	2.225

# SEC ALL PRODUCT RANGE



**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



**CELLYTE TRA Range**



**Nickel Cadmium Range**  
Pocket Plate flooded and VR



**Typical VRLA catalyst**

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