

STATIONARY LEAD ACID BATTERIES WITH TUBULAR POSITIVE PLATES

THIS RANGE IS SPECIFICALLY DESIGNED FOR STATIONARY
INSTALLATIONS WHERE CYCLIC DISCHARGES MAY OCCUR

SEC-T-RANGE 260Ah to 3110Ah

MAIN APPLICATIONS

- Telecommunications
- Photovoltaic/Cyclic
- Power Plant
- Emergency Lighting
- Transmission Switching
- UPS systems
- Alarm systems
- Signalling

CELL DESCRIPTION

CONTAINER

Transparent acrylonitrile polystyrene (S.A.N.)

COVER

Grey acrylonitrile polystyrene (S.A.N.)

POSITIVE PLATES

- Tubular spine grid
- Low Antimony
- Multiwoven polyester sleeve

NEGATIVE PLATES

- Flat pasted grid
- Two level mesh for low resistance

VENT PLUG

Explosion proof flame arrestor

TERMINALS

- O-ring sealing system
- Allows +ve plate growth
- Copper female insert for M8 bolt

INTERCONNECTS

Insulated cables

ELECTROLYTE

- Specific gravity 1.240
- Large reserve for low maintenance

SEPARATORS

Microporous plastic



APPROVED BY TELECOM AND POWER
AUTHORITIES WORLDWIDE

Supplied Worldwide by:

SEC Industrial Battery Co.



Tubular Plate Discharge Data Amps at 20 C. to 1.80 VPC

SEC Type	DIN Type	Discharge Time Hours									Discharge in Minutes		
		100 Hr.	24 Hr.	10 Hr.	8 Hr.	6 Hr.	5 Hr.	4 Hr.	3 Hr.	2 Hr.	60Min.	30Min.	15Min.
SEC T5-09	4 OpzS 200	3	9	20	24	30.0	34	40	48	61	92.0	127	156
SEC T5-11	5 OpzS 250	4	12	25	30	38.0	43	50	60	77	115	158	195
SEC T5-13	6 OpzS 300	5	14	30	36	45.0	51	60	72	92	138	190	234
SEC T7-11	5 Opzs 350	6	17	37	44	54.0	62	71	86	111	164	216	248
SEC T7-13	6 OpzS 420	7	21	45	53	65.0	75	85	103	133	197	259	298
SEC T7-15	7 OpzS 490	8	24	52	62	76.0	87	99	121	156	230	303	347
SEC T10-13	6 OpzS 600	9	28	61	73	90.0	102	118	143	180	258	330	384
SEC T10-17	8 OpzS 800	12	38	81	97	119	136	158	191	240	344	440	512
SEC T10-21	10 OpzS 1000	15	47	101	121	149	170	197	238	300	430	550	640
SEC T10-25	12 OpzS 1200	18	56	121	145	179	204	237	286	360	516	600	768
SEC T12-25	12 OpzS 1500	23	71	153	181	225	256	295	355	456	624	744	768
SEC T12-33	16 OpzS 2000	30	95	203	242	299	341	394	474	608	832	992	1024
SEC T12-41	20 OpzS 2500	38	119	254	302	374	426	492	592	760	1040	1240	1280
SEC T12-49	24 OpzS 3000	46	142	305	363	449	511	591	711	912	1248	1488	1536

Tubular Plate Discharge Data Amp Hour at 20 C. to 1.80 VPC

SEC Type	DIN Type	Discharge Time Hours Amp Hours									Discharge in Minutes		
		100 Hr.	24 Hr.	10 Hr.	8 Hr.	6 Hr.	5 Hr.	4 Hr.	3 Hr.	2 Hr.	60Min.	30Min.	15Min.
SEC T5-09	4 OpzS 200	300	224	200	192	180	170	160	144	122	92	127	156
SEC T5-11	5 OpzS 250	375	280	250	240	228	215	200	180	154	115	158	195
SEC T5-13	6 OpzS 300	450	336	300	288	270	255	240	216	184	138	190	234
SEC T7-11	5 Opzs 350	555	414.4	370	352	324	310	284	258	222	164	216	248
SEC T7-13	6 OpzS 420	675	504	450	424	390	375	340	309	266	197	259	298
SEC T7-15	7 OpzS 490	780	582.4	520	496	456	435	396	363	312	230	303	347
SEC T10-13	6 OpzS 600	915	683.2	610	584	540	510	472	429	360	258	330	384
SEC T10-17	8 OpzS 800	1215	907.2	810	776	714	680	632	573	480	344	440	512
SEC T10-21	10 OpzS 1000	1515	1131.2	1010	968	894	850	788	714	600	430	550	640
SEC T10-25	12 OpzS 1200	1815	1355.2	1210	1160	1074	1020	948	858	720	516	600	768
SEC T12-25	12 OpzS 1500	2295	1713.6	1530	1448	1350	1280	1180	1065	912	624	744	768
SEC T12-33	16 OpzS 2000	3045	2273.6	2030	1936	1794	1705	1576	1422	1216	832	992	1024
SEC T12-41	20 OpzS 2500	3810	2844.8	2540	2416	2244	2130	1968	1776	1520	1040	1240	1280
SEC T12-49	24 OpzS 3000	4575	3416	3050	2904	2694	2555	2364	2133	1824	1248	1488	1536

Advantage of T- Range Cells

Tubular positive plates for long life in float and cyclic applications.

Performance guaranteed. Conforms to European standards DIN 40736.

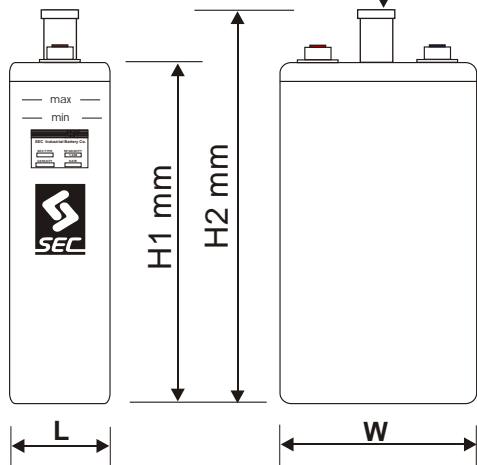
Long life of 15+ years in floating condition and 1200+ deep cycles.

For minimum maintenance the recommended float charge of 2.20 Vpc (± 0.01 Vpc) at 20C to 25C. For temperature other than 20C - 25C the float voltage should be corrected using the temperature correction factor of ± 0.004 volts /cell /degree C. For temperature above/ below 20C - 25C e.g. 10C the voltage has to be increased and at 30C the float voltage has to be reduced.

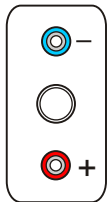
SEC-T-RANGE - TUBULAR POSITIVE PLATE - Battery Data

Cell type	DIN Type	Volts per Cell	Overall Dimensions in mm				Short Circuit Current	Internal Resistance in m Ω	Number of Terminals	Cell weight in Kg.		Weight electrolyte (Density 1.24kg/l kg)
			L	W	H1	H2				Dry Weight kg	Filled Weight kg	
SEC T5-09	4 OPzS 200	2	105	208	360	420	2166	0.923	2	12.3	17.2	4.9
SEC T5-11	5 OPzS 250	2	126	208	360	420	2710	0.738	2	14.7	20.8	6.1
SEC T5-13	6 OPzS 300	2	147	208	360	420	3252	0.615	2	17.1	24.3	7.2
SEC T7-11	5 OPzS 350	2	126	208	475	535	2688	0.744	2	19.0	26.9	7.9
SEC T7-13	6 OPzS 420	2	147	208	475	535	3225	0.620	2	22.1	31.5	9.4
SEC T7-15	7 OPzS 490	2	168	208	475	535	3766	0.531	2	25.2	36.1	10.9
SEC T10-13	6 OPzS 600	2	147	208	650	710	4597	0.435	2	31.9	44.8	12.9
SEC T10-17	8 OPzS 800	2	215	193	650	710	6134	0.326	4	44.4	61.3	16.9
SEC T10-21	10 OPzS 1000	2	215	235	650	710	7662	0.261	4	53.5	74.6	21.1
SEC T10-25	12 OPzS 1200	2	215	277	650	710	9174	0.218	4	62.5	88.0	25.5
SEC T12-25	12 OPzS 1500	2	215	277	800	855	9433	0.212	4	80.1	114.3	34.2
SEC T12-33	16 OPzS 2000	2	215	400	775	815	12578	0.159	6	103.5	151.5	48.0
SEC T12-41	20 OPzS 2500	2	215	490	775	815	15748	0.127	8	125.0	193.0	68.0
SEC T12-49	24 OPzS 3000	2	215	580	775	815	18867	0.106	8	170.0	246.0	76.0

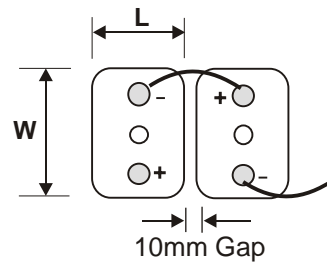
Vent Plug: Ceramic flame arrestor



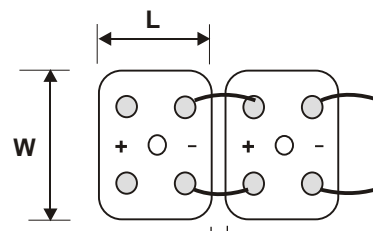
TYPICAL OUTLINE DRAWING WITH LABELS



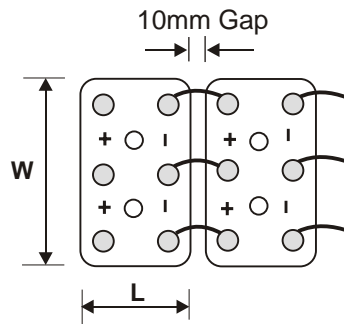
TYPICAL LAYOUT AND WIRING



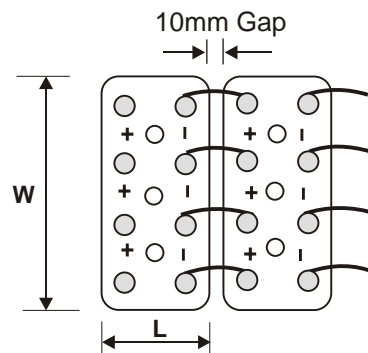
TYPE T5-09 to T10-13



TYPE T10-17 to T12-25



TYPE T12-33

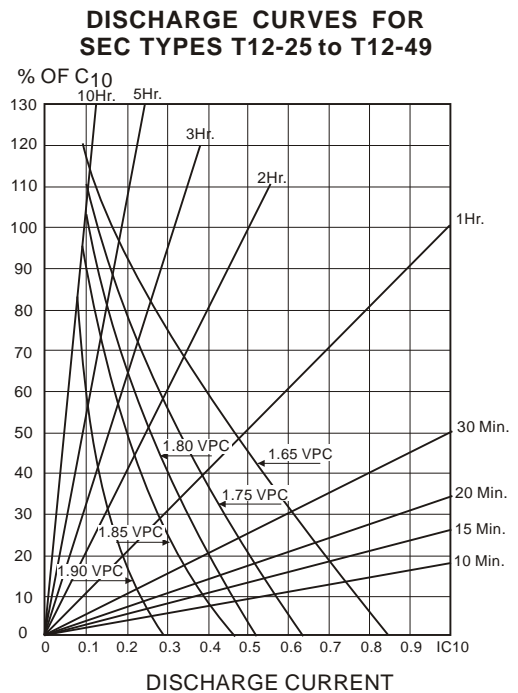
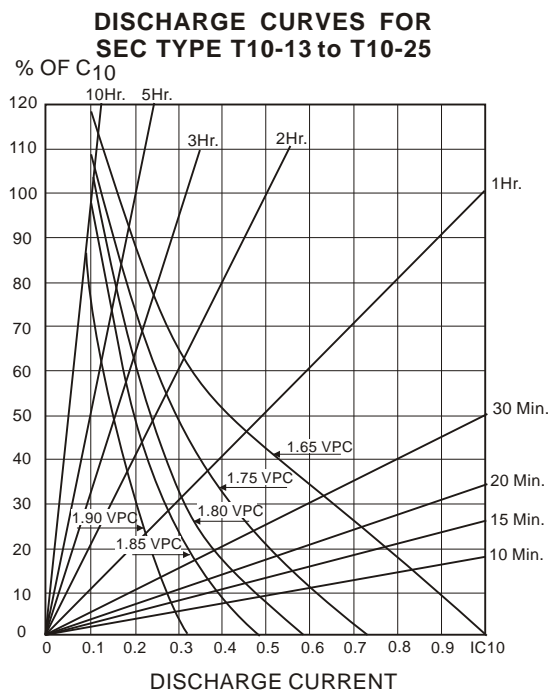
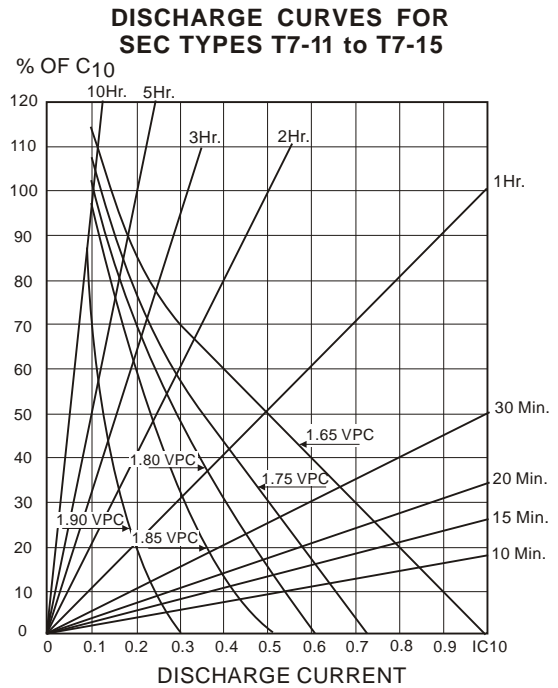
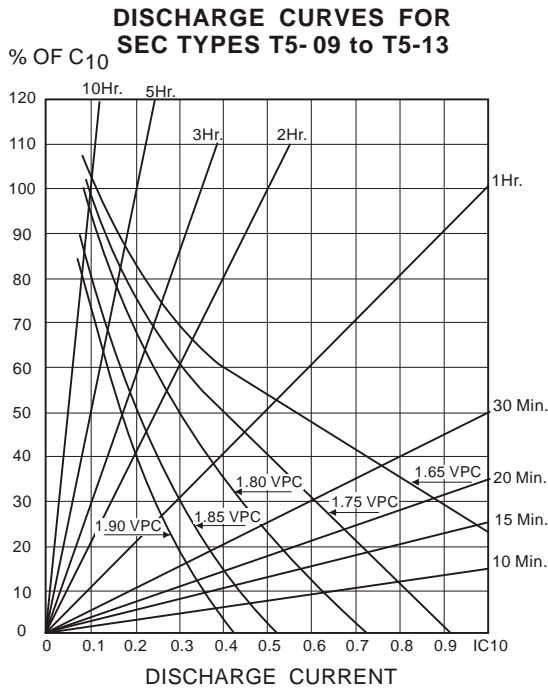


TYPE T12-41 & 49

The performance of the SEC-T-RANGE of batteries meets the DIN, IEC and Public contracts specifications No. 5641 Standards.

The use of tubular positive plates increases the life span of the battery, even in harsh environmental cyclic conditions

Nominal capacities in ampere hours @ 10hr. rate



Visit our Web site for more product information on www.secbattery.com



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