



# STRYTEN ENERGY

## E-SERIES

# Flooded H1T >>>

Flooded H1T batteries from Stryten Energy are the right choice for Telecom, Electric Utilities and other applications requiring constant current or constant power for long duration discharges. Stryten Energy offers cell selections from 190 to 4000 amp-hours to meet the specific needs of a variety of long duration applications. These Flooded batteries have optimized grids and separators to provide long life while combatting the effects of normal grid corrosion and growth. Stryten Energy also offers a full line of battery racks & spill containment systems to complement our Flooded batteries.



**THE ENERGY TO CHALLENGE** >>>

# FLOODED H1T – LEAD CALCIUM SPECIFICATIONS

## LONG DURATION

**Type** – H1T - Lead Calcium

**Capacities** – 2,500 A.H. to 4,000 A.H.

**8 hour rate to 1.75 V.P.C. @ 77°F (25°C)**

**20 year life expectancy**

## SPECIFICATIONS

**\*Jar** – Styrene-Acrylonitrile (SAN) Plastic

**\*Cover** – Acrylonitrile Butadiene Styrene (ABS) Plastic

**Grid Alloy** – Positive: Lead-Calcium-Tin

**Negative:** Lead-Calcium

**Separators** – Microporous Material

**Retainers** – Fiberglass Mat

**Posts** – Four - 1.5" (38.1 mm) Square

**Post Seals** – Floating "O" Ring - Seal Nut

**Vents** – Stryten Energy "Pre-Vent" Flame Arrester

**Level Lines** – High and Low - All Jar Faces

**Electrolyte** – Height above plates - 3.25" (82.6 mm)

**Electrolyte Withdrawal Tubes** – 1 Per Cell

**Sediment Space** – 1.06" (26.9 mm)

**Specific Gravity** – 1.215 @ 77°F (25°C)

**Inter-Cell Connectors** – Lead Plated Copper

### \*Optional

Polycarbonate Jar and Cover

- UL 94 – V-0 • 35% Limiting Oxygen Index (L.O.I.)

PVC Jar and Cover

- UL 94 – V-0 • 32% Limiting Oxygen Index (L.O.I.)

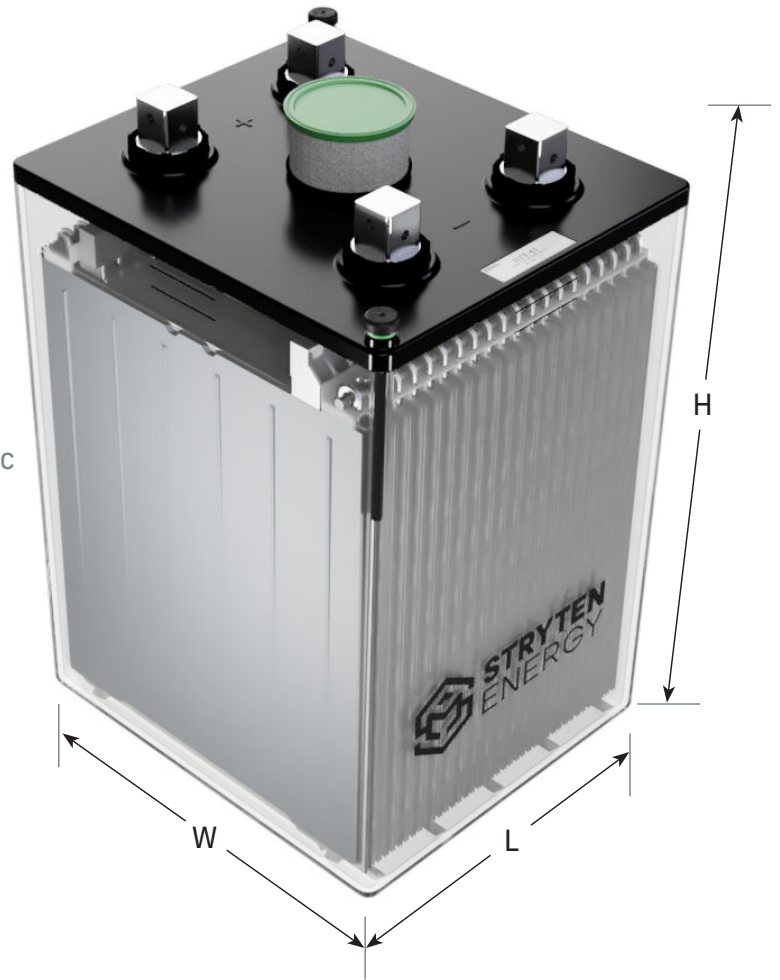


PLATE DIMENSIONS	HEIGHT	WIDTH	THICKNESS
Positive Plate	17.5 in 445 mm	15 in 381 mm	.222 in 5.64 mm
Negative Plate	17.5 in 445 mm	15 in 381 mm	0.162in 4.11 mm

CELL TYPE	AMP-HOUR CAPACITY*	OVERALL DIMENSIONS			APPROXIMATE WEIGHT		ELECTROLYTE PER CELL
		LENGTH	WIDTH	HEIGHT	NET	PACKED	
H1T-23	2504	15.1 in/384 mm	17.25 in/438 mm	25.13 in/638 mm	437 lbs/198 kg	450 lbs/204 kg	17.9 gal/67.7 liter
H1T-25	2640				453 lbs/206 kg	478 lbs/217 kg	17.7 gal/66.6 liter
H1T-27	2768				469 lbs/213 kg	494 lbs/224 kg	17.4 gal/66.0 liter
H1T-29	2904				484 lbs/220 kg	509 lbs/231 kg	17.2 gal/65.1 liter
H1T-31	3008				500 lbs/227 kg	525 lbs/238 kg	17.0 gal/64.2 liter
H1T-33	3112				516 lbs/234 kg	541 lbs/245 kg	16.7 gal/63.3 liter
H1T-35	3264				532 lbs/241 kg	557 lbs/253 kg	16.5 gal/62.4 liter
H1T-37	3416				548 lbs/248 kg	573 lbs/260 kg	16.3 gal/61.6 liter
H1T-39	3600				563 lbs/256 kg	588 lbs/267 kg	16.0 gal/60.7 liter
H1T-41	4000				579 lbs/263 kg	604 lbs/274 kg	15.8 gal/59.8 liter

\*8 hour rate to 1.75 VPC @ 77°F (25°C)

# AMP DATA @ 77°F (25°C)

## H1T CELLS

CELL TYPE	HOURS								MINUTES		
	24	12	8	5	4	3	2	1	30	15	1
<b>AMPERES TO 1.75 VPC</b>											
H1T-23	138	236	313	435	498	581	745	1065	1345	1677	1677
H1T-25	146	248	330	459	528	626	806	1155	1481	1832	1832
H1T-27	153	260	346	483	559	671	867	1245	1616	1986	1986
H1T-29	161	272	363	507	590	716	929	1335	1752	2140	2140
H1T-31	163	278	376	534	624	758	977	1394	1862	2283	2283
H1T-33	166	284	389	560	659	799	1026	1452	1972	2425	2425
H1T-35	170	296	408	585	690	842	1093	1560	2079	2500	2517
H1T-37	174	308	427	611	720	885	1160	1668	2185	2575	2665
H1T-39	176	323	450	638	750	905	1213	1719	2285	2643	2813
H1T-41	178	337	500	666	780	959	1267	1769	2385	2711	2961
<b>AMPERES TO 1.78 VPC</b>											
H1T-23	137	234	312	430	486	563	694	977	1365	1440	1440
H1T-25	144	247	328	454	516	605	758	1058	1462	1578	1578
H1T-27	152	259	344	477	546	647	822	1139	1560	1723	1723
H1T-29	159	271	360	501	576	689	887	1220	1657	1868	1868
H1T-31	161	275	371	521	603	727	930	1277	1769	1987	1987
H1T-33	163	279	381	541	630	765	973	1334	1881	2106	2106
H1T-35	168	291	400	566	662	809	1035	1389	1998	2168	2198
H1T-37	173	303	419	591	694	853	1096	1444	2115	2231	2328
H1T-39	174	317	443	619	723	876	1105	1514	2207	2327	2457
H1T-41	176	332	466	647	752	899	1113	1583	2298	2424	2586
<b>AMPERES TO 1.80 VPC</b>											
H1T-23	136	232	309	423	477	547	664	917	1245	1313	1313
H1T-25	144	245	325	446	505	588	729	997	1335	1408	1408
H1T-27	151	257	341	468	534	630	794	1077	1425	1548	1548
H1T-29	158	270	356	491	563	671	859	1157	1515	1687	1687
H1T-31	159	273	367	510	588	706	900	1212	1615	1790	1790
H1T-33	161	276	378	529	613	741	941	1267	1714	1893	1893
H1T-35	166	288	396	554	647	785	999	1323	1806	1947	1986
H1T-37	171	299	413	578	681	828	1057	1380	1898	2002	2103
H1T-39	172	314	438	606	706	854	1068	1436	1992	2101	2219
H1T-41	174	329	462	633	731	880	1079	1492	2086	2200	2336
<b>AMPERES TO 1.81 VPC</b>											
H1T-23	136	229	304	415	469	535	642	842	1110	1171	1171
H1T-25	143	241	320	438	496	574	705	910	1239	1307	1307
H1T-27	149	254	337	460	524	614	768	978	1368	1443	1443
H1T-29	156	267	353	483	551	653	831	1047	1496	1578	1578
H1T-31	158	270	362	501	575	688	873	1115	1585	1672	1672
H1T-33	160	272	372	519	600	723	915	1183	1674	1765	1765
H1T-35	165	284	389	543	630	764	962	1241	1720	1815	1858
H1T-37	170	295	406	567	660	805	1009	1299	1767	1864	1968
H1T-39	171	310	431	594	688	831	1032	1358	1851	1952	2077
H1T-41	172	325	456	621	715	857	1056	1416	1934	2040	2186

## AMP DATA @ 77°F (25°C) H1T CELLS

CELL TYPE	HOURS								MINUTES	
	24	12	8	5	4	3	2	1	30	15
AMPERES TO 1.83 VPC										
H1T-23	135	221	297	399	455	512	603	757	971	971
H1T-25	141	234	312	423	480	548	661	825	1095	1095
H1T-27	147	248	326	446	505	585	719	893	1218	1218
H1T-29	153	261	341	469	530	621	777	960	1342	1342
H1T-31	155	264	352	485	553	654	822	1020	1417	1417
H1T-33	156	266	363	501	575	687	867	1080	1492	1492
H1T-35	161	277	377	522	602	723	904	1139	1532	1532
H1T-37	166	288	392	543	629	760	941	1198	1572	1572
H1T-39	167	302	416	571	657	787	972	1268	639	1639
H1T-41	169	315	441	598	684	814	1004	1338	1707	1707
AMPERES TO 1.85 VPC										
H1T-23	134	214	290	386	437	492	568	701	900	900
H1T-25	140	228	303	408	461	525	621	762	990	990
H1T-27	145	242	317	431	486	559	675	824	1080	1080
H1T-29	150	256	330	453	511	592	728	885	1170	1170
H1T-31	151	257	341	470	531	620	776	943	1230	1230
H1T-33	153	259	352	486	551	649	824	1001	1290	1290
H1T-35	158	270	367	505	575	683	851	1056	1322	1322
H1T-37	163	280	382	523	599	718	879	1111	1354	1354
H1T-39	164	293	404	550	627	746	911	1168	1443	1443
H1T-41	166	306	425	576	655	774	942	1225	1532	1532
AMPERES TO 1.88 VPC										
H1T-23	127	203	267	350	388	443	529	600	590	590
H1T-25	132	215	280	371	415	478	567	645	676	676
H1T-27	136	226	294	392	442	512	605	690	773	773
H1T-29	141	238	307	414	468	546	643	734	870	870
H1T-31	142	239	317	429	485	564	679	771	900	900
H1T-33	144	241	326	444	501	582	715	808	930	930
H1T-35	149	251	339	461	522	602	722	832	949	949
H1T-37	155	260	352	479	542	622	728	857	969	969
H1T-39	156	272	370	503	567	656	774	939	1071	1071
H1T-41	157	283	389	527	592	690	819	1024	1178	1178
AMPERES TO 1.90 VPC										
H1T-23	124	192	249	324	354	420	495	556	557	557
H1T-25	127	203	263	345	384	447	524	605	605	605
H1T-27	130	214	276	367	413	474	554	654	689	689
H1T-29	133	225	290	388	443	502	584	703	773	773
H1T-31	135	227	299	402	456	518	611	735	779	779
H1T-33	137	229	307	415	470	535	637	766	785	785
H1T-35	142	237	319	430	489	556	650	784	798	798
H1T-37	147	245	330	444	509	577	663	802	810	810
H1T-39	149	256	345	470	531	602	694	909	969	969
H1T-41	150	266	361	496	552	627	724	1015	1128	1128

## The Energy to Challenge

Stryten Energy helps solve the world's most pressing energy challenges with a broad range of energy storage solutions and components across the Essential Power, Motive Power, Transportation, Military and Government sectors. Headquartered in Alpharetta, Georgia, we partner with some of the world's most recognized companies to meet the growing demand for reliable and sustainable energy storage capacity. Stryten powers everything from submarines to subcompacts, microgrids, warehouses, distribution centers, cars, trains and trucks. Our stored energy technologies include advanced lead, lithium and vanadium redox flow batteries, intelligent chargers and energy performance management software that keep people on the move and supply chains running.

Learn more at [www.stryten.com](http://www.stryten.com)

