

## RANGE SUMMARY

The SuperSafe™ T range of valve regulated lead acid batteries has been designed specifically for use in applications which demand the highest levels of security and reliability. With proven compliance to the most rigorous international standards, SuperSafe T is recognised worldwide as the premium battery for Telecom applications. SuperSafe T's reputation for long service life, together with excellent high rate performance, also makes it the number one choice for high integrity, high specification UPS systems.

SuperSafe T delivers superior performance whilst occupying less space than conventional standby power batteries. The use of V-0 rated, flame retardant, ABS plastic for the thick wall containers and lids offers high mechanical strength with excellent safety features.

SuperSafe T batteries are designed using proven gas recombination technology which removes the need for regular water addition by controlling the evolution of hydrogen and oxygen during charging. Oxygen evolved at the positive plates diffuses through microporous separators to the negative plates and, by a series of chemical reactions within the cell, recombines to form water. Each cell incorporates its own safety valve that allows the controlled release of gas when pressure builds up within the cell.

The use of gas recombination technology for lead acid batteries has totally changed the concept of standby power. This technology provides the user with the freedom to use lead acid batteries in a wide range of applications.

### Features & Benefits

- Capacity range: 46Ah - 518Ah
- Available in 2, 4, 6 and 12 volt blocs
- UL94 V-0 flame retardant case and lid
- Designed for a wide range of applications
- High reliability
- Proven long service life



## Construction

- Positive and negative plates in lead-tin-calcium alloy
- Separators in low resistance microporous glass fibre. The electrolyte is absorbed within this material, preventing acid spills in case of accidental damage
- Containers and lids in flame retardant ABS material, highly resistant to shock and vibration
- Terminals with brass insert for maximum conductivity and with high compression grommet for long life
- Self-regulating pressure relief valves prevent ingress of atmospheric oxygen

## Installation & Operation

- The SuperSafe T range is designed for installation in cabinets or on stands. A separate battery room is not necessary
- SuperSafe T blocs can be mounted in vertical or horizontal orientation
- Recommended float charge voltage 2.280Vpc at 20°C (68°F) or 2.265Vpc at 25°C (77°F)
- Six months shelf life at 20°C
- Reduced maintenance: no water addition required

## Standards

- In compliance with the requirements of the international IEC 60896-21/22 standard
- Compliant with BS 6290 Part 4
- Classified as "Long Life" according to the Eurobat Guide
- Designed to meet Telcordia SR-4228 requirements
- Recognised by UL (UL Standard 1989)
- Approved to be shipped as non-hazardous cargo in accordance with the requirements of IMDG (International Maritime code for Dangerous Goods) and OICA (Organisation of International Civil Aviation)
- Manufactured in EnerSys production facilities certified to ISO 9001

## General Specifications

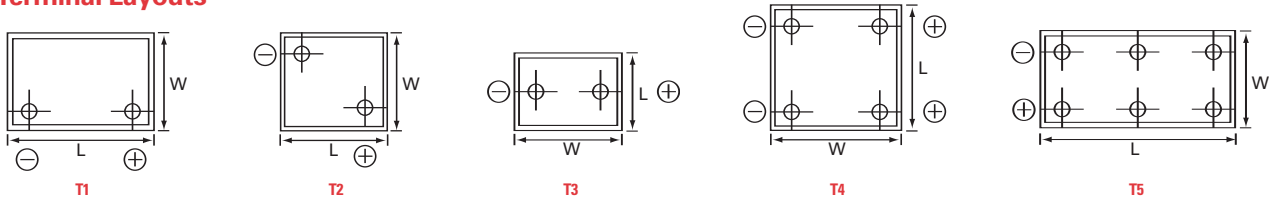
Type	Number of Cells	Nominal Voltage (V)	Nominal Capacity (Ah)		Nominal Dimensions						Typical Weight		Short Circuit Current (A)	Internal Resistance (mΩ)	Terminals	
			10 hr rate to 1.80Vpc @ 20°C	8 hr rate to 1.75Vpc @ 77°F	Length mm	in	Width <sup>(1)</sup> mm	in	Overall Height <sup>(2)</sup> mm	in	kg	lbs			Type	Layout
12T45	6	12	46	47	218	8.6	164	6.5	220	8.7	18.9	41.7	2019	6.2	M6 Female	T1
12T55	6	12	56	59	271	10.7	164	6.5	220	8.7	22.9	50.5	2470	5.1	M6 Female	T1
12T70	6	12	68	70	314	12.4	164	6.5	220	8.7	26.7	58.9	2550	4.9	M6 Female	T1
12T80	6	12	79	82	360	14.2	164	6.5	228	9.0	31.5	69.5	3500	3.6	M6 Female	T1
4T105	2	4	103	103	191	7.5	202	8.0	235	9.3	16.5	36.4	3560	1.1	M8 Male	T2
6T105	3	6	103	103	191	7.5	202	8.0	235	9.3	22.0	48.5	3560	1.7	M8 Male	T2
6T130	3	6	132	134	243	9.6	206	8.1	234	9.2	27.9	61.5	4846	1.3	M8 Female	T2
4T155	2	4	154	155	202	8.0	202	8.0	228	9.0	23.0	50.7	4800	0.80	M8 Male	T4
6T155	3	6	154	155	292	11.5	202	8.0	228	9.0	33.0	72.8	4800	1.2	M8 Male	T5
6T165/2	3	6	173	172	296	11.7	204	8.0	234	9.2	34.1	75.2	5728	1.1	M8 Female	T2
2T200	1	2	200	194	110	4.3	208	8.2	260	10.2	13.9	30.6	5833	0.36	M8 Female	T3
4T230	2	4	231	232	292	11.5	202	8.0	228	9.0	32.5	71.7	7207	0.56	M8 Male	T4
2T275	1	2	275	267	142	5.6	208	8.2	260	10.2	18.5	40.8	7000	0.30	M8 Female	T3
2T310	1	2	308	309	202	8.0	202	8.0	228	9.0	23.0	50.7	9259	0.22	M8 Male	T4
2T320	1	2	320	329	195	7.7	208	8.2	242	9.5	22.0	48.5	10000	0.20	M8 Female	T4
2T400/2	1	2	400	388	195	7.7	208	8.2	260	10.2	26.2	57.8	9545	0.22	M8 Female	T3
2T460/4	1	2	462	464	292	11.5	202	8.0	228	9.0	32.5	71.7	10929	0.18	M8 Male	T4
2T460/6	1	2	462	464	292	11.5	202	8.0	228	9.0	33.0	72.8	10929	0.18	M8 Male	T5
2T500/2	1	2	500	484	238	9.4	208	8.2	260	10.2	32.5	71.7	11667	0.18	M8 Female	T3
2T500/6	1	2	518	516	296	11.7	204	8.0	240	9.4	34.7	76.5	16154	0.13	M8 Female	T5

Notes:

<sup>(1)</sup> In horizontal installation, the width of SuperSafe T top terminal blocs becomes the height, irrespective of positive and negative polarities.

<sup>(2)</sup> Overall height includes insulating covers.

## Terminal Layouts



www.enersys.com

**EnerSys**  
 P.O. Box 14145  
 Reading, PA 19612-4145  
 USA  
 Tel: +1-610-208-1991  
 +1-800-538-3627  
 Fax: +1-610-372-8613

**EnerSys EMEA**  
 Houtweg 26  
 1140 Brussels  
 Belgium  
 Tel: +32 (0)2 247 94 47  
 Fax: +32 (0)2 247 94 49

**EnerSys Asia**  
 49, Yanshan Road  
 Shekou, Shenzhen  
 Guangdong 518066  
 China  
 Tel: +86-755-2689 3639  
 Fax: +86-755-2689 8013

Contact:

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