

The SuperSafe™ TE range of valve regulated lead acid batteries has been designed to offer competitive solutions for the global telecommunications and information technology markets. SuperSafe TE incorporates selected design features for the cost-conscious user, whilst retaining superior performance by weight and volume, increased flexibility of installation and reduced maintenance. SuperSafe TE's overall design, material specification and construction make it most suitable for other more traditional sectors, such as emergency lighting and utilities.

The SuperSafe TE range is available in two configurations: the traditional top terminal series, typically used for open rack installations and the increasingly popular front terminal series, typically designed for cabinet installations.

The front terminal design makes installation much easier. Monobloc connections are positioned at the front of the cabinet and with no overhead access required, the space between shelves can be reduced. The front terminal design is also much more convenient for routine inspection and maintenance, saving valuable time through easier access.

### Features & Benefits

- Capacity range: 46Ah - 518Ah
- Available in 2, 6 and 12 volt blocs
- Optimised for Telecom applications
- Top terminal and front terminal designs
- Container and lid in strong ABS
- "High Performance" Eurobat classification



## Construction

- Positive plates designed to extend service life
- Separator in low resistance microporous glass fibre
- Container and lid in tough ABS material. The lid is heat-welded to the container
- Terminal with brass insert for maximum conductivity and with high compression grommet for long life
- Self-regulating pressure relief valve prevents ingress of atmospheric oxygen
- Terminal insulating covers for added safety fitted as standard

## Installation & Operation

- The SuperSafe TE range is designed for installation in cabinets or on stands. A separate battery room is not necessary
- SuperSafe TE top terminal blocs can be mounted in vertical or horizontal orientation. SuperSafe TE front terminal monoblocs should be installed on their base
- Recommended float charge voltage: 2.280Vpc at 20°C (68°F)  
2.265Vpc at 25°C (77°F)
- Reduced maintenance: no water addition required

## Standards

- Tested according to international standard IEC 60896-21 and compliant to defined requirements of IEC 60896-22
- Classified as "High Performance" according to the Eurobat Guide
- Able 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 9001:2000

## General Specifications

Type	Number of Cells	Nominal Voltage (V)	Nominal Capacity (Ah)		Nominal Dimensions				Overall Height		Typical Weight		Terminals		
			10 hr rate to 1.80Vpc @ 20°C	8 hr rate to 1.75Vpc @ 77°F	Length mm	in	Width <sup>(3)</sup> mm	in	mm	in	kg	lbs	Type	Layout	Type
12TE50	6	12	46	47	218	8.58	164	6.46	220	8.66	18.9	41.7	M6 F	V1	12TE50
12TE60 <sup>(2)</sup>	6	12	56	59	271	10.7	164	6.46	220	8.66	22.9	50.5	M6 F	V1	12TE60
12TE75 <sup>(2)</sup>	6	12	68	70	314	12.4	164	6.46	220	8.66	26.7	58.9	M6 F	V1	12TE75
12TE90 <sup>(1)</sup>	6	12	79	82	360	14.2	164	6.46	228	8.98	31.5	69.5	M6 F	V1	12TE90
6TE140 <sup>(1)</sup>	3	6	132	134	243	9.57	206	8.11	234	9.21	27.9	61.5	M8 F	V2	6TE140
6TE155 <sup>(1)</sup>	3	6	157	159	278	10.9	178	7.01	258	10.2	32.2	71.0	M8 M	V2	6TE155
6TE180 <sup>(1)</sup>	3	6	173	172	296	11.7	204	8.03	234	9.21	34.1	75.2	M8 F	V2	6TE180
2TE225	1	2	200	194	110	4.33	208	8.19	260	10.2	13.9	30.6	M8 F	V3	2TE225
2TE310	1	2	275	267	142	5.59	208	8.19	261	10.3	18.5	40.8	M8 F	V3	2TE310
2TE450	1	2	400	388	195	7.68	208	8.19	260	10.2	26.2	57.8	M8 F	V3	2TE450
2TE540 <sup>(1)</sup>	1	2	518	516	296	11.7	204	8.03	240	9.45	34.7	76.5	M8 F	V4	2TE540
2TE550 <sup>(2)</sup>	1	2	500	484	238	9.37	208	8.19	261	10.3	32.5	71.7	M8 F	V3	2TE550
12TE115F <sup>(1)(4)</sup>	6	12	100	101	510	20.1	110	4.33	235	9.25	36.5	80.5	M8 F	V5	12TE115F
12TE140F <sup>(1)</sup>	6	12	125	126	561	22.1	105	4.13	316	12.4	56.0	123.5	M6 M	V6	12TE140F
12TE160F <sup>(1)</sup>	6	12	155	158	561	22.1	125	4.92	316	12.4	67.0	147.7	M6 M	V6	12TE160F
12TE180F <sup>(1)</sup>	6	12	165	165	561	22.1	125	4.92	316	12.4	67.0	147.7	M6 M	V6	12TE180F

### NOTES:

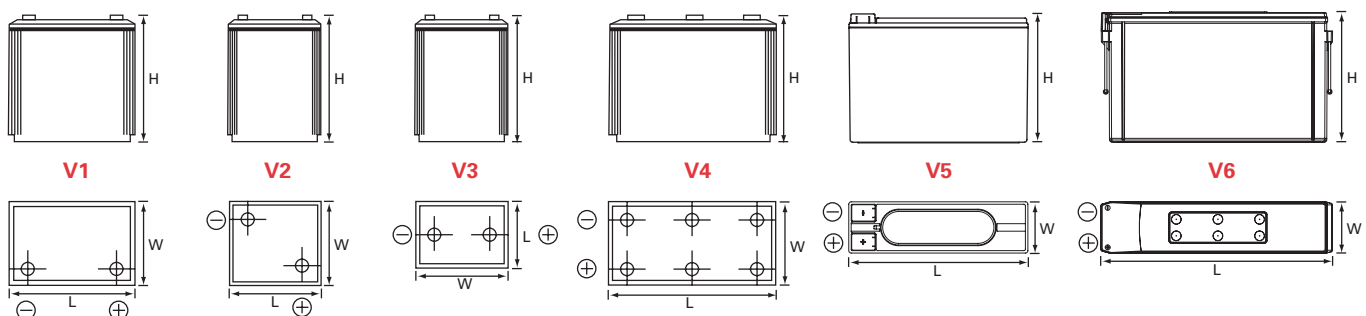
<sup>(1)</sup> With handles

<sup>(2)</sup> Handles available as an option

<sup>(3)</sup> In horizontal installation, the width of SuperSafe TE top terminal blocs becomes the height, irrespective of positive and negative polarities

<sup>(4)</sup> Front terminal kit and remote venting available as options

## Terminal Layouts



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