

Product information

The **SuperSafe**™ range offers an ideal modular solution for large capacity valve regulated lead acid battery requirements. **SuperSafe**™'s modular design concept requires no separate battery stand or accommodation providing a cost effective battery system combined with a compact, quick and simple installation process.

SuperSafe™, with its optimised recombination technology and extra thick plates, provides excellent performance and service life across a wide range of applications including: telecommunications, power generation/distribution, UPS and emergency lighting.

Hawker has earned an international reputation for quality and reliability based on more than 100 years experience in the manufacture of batteries and is at the forefront of new product design to meet customer's increasing technical requirements.

SuperSafe batteries are designed using proven gas recombination technology, which removes the need for regular water addition by regulating the emission of hydrogen and oxygen during charging.

The use of gas recombination technology for lead acid batteries has completely 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.

The minimal level of gas production permits batteries to be installed in main equipment rooms, maximising space utilisation and minimising maintenance time and cost.



SuperSafe
™

Range Summary

Features and Benefits

- AGM technology ensures minimal maintenance
- Modular steel structure - provides compact, simple and flexible assembly minimising site installation time
- UL recognised component
- Seismic zone 4 UBC 1997 approved
- Container and lid made in V0 rated polypropylene as standard
- 20 year life in float applications at 25°C
- Low self discharge - 0.5 -1.0% per week - maximises shelf life
- Pressure relief valve with integral flame arrestor
- Side or top mounted terminal options

Construction

- Thick lead-calcium-tin positive grids minimise corrosion and prolong life
- Balanced lead-calcium grids optimise recombination efficiency
- AGM separator - to absorb the electrolyte
- V0 rated polypropylene container and heat-sealed lid housed in steel modules
- Terminal with threaded copper insert for maximum conductivity
- Ring burn terminal seal with secondary epoxy resin seal 100% factory tested and proven in service
- Front panels and main battery terminal plate isolating shields manufactured in V0 rated materials

Standards

- Compliant with international standard IEC 896/2
- Classified as Long Life according to Eurobat Guide 1999
- Approved as non-hazardous cargo for land, sea and air transportation
- All cells are proven to 100% of rated C₁₀ capacity prior to despatch
- Hawker owned production facilities worldwide are certified to ISO 9001

Range Summary

Model	Voltage	Nominal Capacity (Ah) @ 25°C		Dimensions (mm)			Weight ³ (kg)	Position of main terminals ⁵	Connector Type ⁶	Short circuit Current	Internal Resistance (mΩ)
		3hr rate to 1.80Vpc	10hr rate to 1.80Vpc	Length	Depth ¹	Height ²					
12TM-100	12	78	100	437	330	218	66	S	So	1370	8.7
12TM-200	12	153	210	665	330	218	108	S	So	2746	4.37
12TM-300	12	231	310	893	330	218	158	S	So	3882	3.09
12TM-500	12	384	520	957	516	218	229	S or T	So	5180	2.31
12TM-580	12	444	600	1071	516	218	281	S or T	So	6090	1.97
6TM-400	6	306	410	623	330	218	107	S	F	3985	1.5
6TM-830	6	636	850	801	516	218	203	S or T	F	7980	0.75
6TM-1000	6	765	1030	915	516	218	234	S or T	F	9275	0.64
6TM-1080	6	825	1110	972	516	218	255	S or T	F	9673	0.62
6TM-1200	6	888	1200	1071	516	218	281	S	So	9836	0.61
6TM-1500	6	1242	1570	1147	465	277	379	S or T	F	10345	0.58
4TM-1500	4	1242	1570	793	465	277	253	S or T	F	10811	0.37
2TM-2500	2	1908	2550	801	516	218	203	S	So	21978	0.091
2TM-3000/2	2	2484	3140	793	465	277	253	S or T	So	20200	0.099
2TM-3000/3	2	2295	3090	915	516	218	234	S	So	25314	0.079
2TM-3300	2	2475	3330	972	516	218	255	S	So	26667	0.075
2TM-4700	2	3726	4710	1147	465	277	379	S	So	28169	0.071

Notes:

⁽¹⁾ The depth shown in the table is for the module only. Add 86mm to include the front panel.

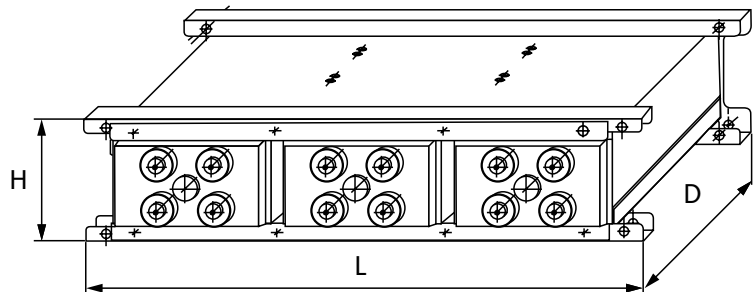
⁽²⁾ To calculate the total height of a battery stack multiply the module height by the number of modules in the stack and add 102mm for the support, except for the 1500, 3000/2 and 4700 modules where 125mm must be added.

⁽³⁾ The weight of the module excludes the cover, connectors, terminal plate/connector and base.

⁽⁴⁾ SuperSafe TM batteries should only be installed horizontally.

⁽⁵⁾ S - side mounted main battery terminal
T - top mounted main battery terminal

⁽⁶⁾ So - electroplated solid copper
F - insulated flexible copper



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