

RANGE SUMMARY

The PowerSafe VX range of valve regulated lead acid batteries has been specifically designed to operate at high temperatures and in harsh environments. The unique combination of pure lead and thick plate technologies, together with the selection of high grade materials, give PowerSafe VX products a life of 10 years at 40°C, a claim unmatched by any other VRLA lead acid battery.

Additionally, PowerSafe VX offers a very long life at normal operating temperatures (20+ years), hence making this range the best value solution in the market in terms of total cost of ownership.

EnerSys 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 customers' increasing technical requirements. The 12VX105F front terminal monobloc is the latest addition to the range.

The revolutionary VX series has taken sealed lead acid batteries into a new era. Originally designed for the telecommunications market, the PowerSafe VX range, with its unique specification, is also suitable for other applications such as electric utilities, UPS systems and railroad signalling.

Features & Benefits

- Designed for applications in extreme environments
- 10 year design life at 40°C
- Low total cost of ownership
- Non-halogenated UL94 V-0 flame retardant container and lid
- Lifting handles for easy installation
- Wide operating temperature range: -30°C to +50°C
- Easy to recycle in standard facilities worldwide (no cadmium)



Construction

- Positive plates - thick pure lead grids are designed to enhance corrosion resistance and prolong life
- Negative plates - positive to negative ratio is designed to ensure optimum recombination efficiency
- Separators - the electrolyte is completely absorbed within a low-resistance, microporous, glass-fibre material, preventing acid spills in case of accidental damage
- Containers, lids and covers - moulded from halogen-free, polycarbonate ABS material, to ensure resistance to very high temperatures, shocks and vibrations
- Flame arrestors - built into each cell for increased operational safety
- Connectors and terminals - threaded brass insert for maximum conductivity

- Pillar seals - high quality and integrity materials allow for longer life. Compression grommet is designed for long life
- Self-sealing relief valves - low pressure non-return valve prevents ingress of atmospheric oxygen
- Terminal insulating covers or lid covers - fitted as standard
- All products fitted with built-in or rope handles for easy handling and installation

Operation & Installation

- The PowerSafe VX range of batteries is designed for installation in cabinets or on stands
- PowerSafe 4VX105 and 6VX105 top terminal monoblocs can be mounted vertically or horizontally
- It is recommended that the PowerSafe 12VX105F front terminal monobloc is installed on its base
- Up to one year shelf life

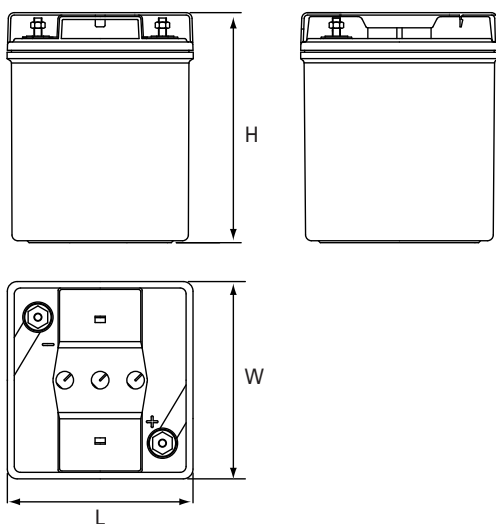
- Recommended float charge voltage: 2.280Vpc at 20°C/68°F (2.265Vpc at 25°C/77°F)
- Reduced maintenance: no water addition required

Standards

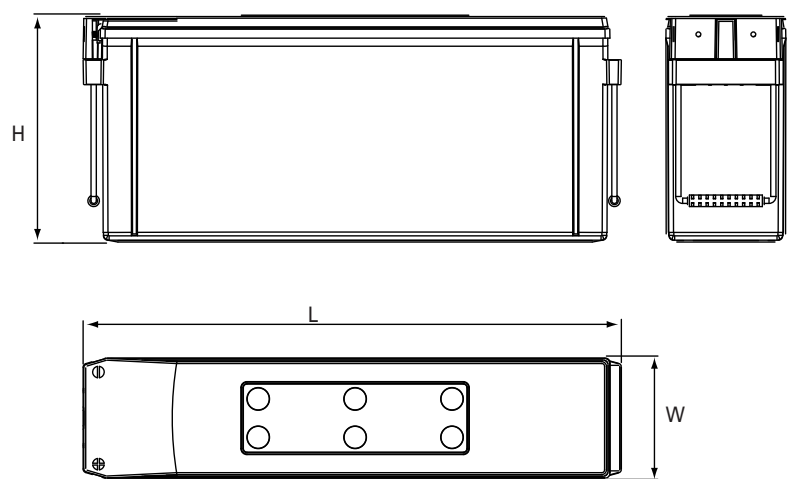
- Compliant with international standard IEC 60896-2
- Designed to meet Telcordia SR-4228 requirements
- Classified as "Long Life" according to Eurobat guide 1999
- UL recognised (UL standard 1989)
- Approved to be shipped as non-hazardous cargo in accordance with the requirements of IMDG (International Maritime Code for Dangerous Goods) and OICA (Organisation of International Civil Aviation)
- Manufactured in EnerSys production facilities that are certified to ISO 9001:2000

General Specifications

Type	Number of Cells	Nominal Voltage (V)	Nominal Capacity (Ah)		Nominal Dimensions						Typical Weight kg	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 mm	in	Overall Height mm	in					
4VX105	2	4	103	103	191	7.5	202	8.0	235	9.3	16.5	36.4	3560	1.1	M8 M
6VX105	3	6	103	103	191	7.5	202	8.0	235	9.3	22.0	48.5	3560	1.7	M8 M
12VX105F	6	12	100	100	561	22.1	125	4.9	235	9.3	48.0	105.8	3636	3.3	M6 M



4VX105 & 6VX105



12VX105F



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