



PowerSafe® VX

Telecommunications, Utilities

Battery Range Summary

The PowerSafe® VX battery range comprises front and top access terminal models suitable for installation in cabinets or equipment racks and on stands. The unique combination of pure lead and thick plate technologies, together with the selection of high grade materials, give PowerSafe VX battery products a design life of 10 years.

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 revolutionary PowerSafe VX battery series has taken sealed lead acid batteries into a new era. Originally designed for the rigorous telecommunications market, the PowerSafe VX battery range, with its unique design, is also suitable for other high rate applications such as utilities.



Features and Benefits

- Pure lead, thick plate technology and Cadmium free.
- Designed for applications in extreme environments
- 10 year design life
- Fully wired 24VDC & 48VDC 23" NCR NEBS™ certified relay racks are available 19" & 23" SpaceSaver™ relay racks are available
- Low total cost of ownership
- UL94 V-0 flame retardant container and lid (halogen free)
- Lifting handles for easy installation
- Wide operating temperature range

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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 - made from a low resistance, microporous, Absorbed Glass Mat material (AGM)
- Containers, lids and covers - molded from halogen-free, polycarbonate ABS UL94-V0 material, to ensure resistance to very high temperatures, shocks and vibrations
- Flame arrestors – built into the manifold of 8VX100F and 12VX100F. All other models have individual cell flame arrestors built into the lid
- Terminal insulating covers or lid covers - fitted as standard
- Self-sealing relief valves - low pressure non-return valve prevents ingress of atmospheric oxygen

Installation and Operation

- Designed for installation in cabinets or on stands
- Inter-bloc connectors - heavy straightbar design to minimize voltage loss and to withstand high currents
- 4VX105 and 6VX105 battery models can be mounted on their base or on their side with the plates in a vertical orientation, as shown in the diagram below
- The 6VX155 battery can be mounted in any orientation except inverted
- Up to one year shelf life at 77°F (25°C)
- Reduced maintenance: no water addition required
- Operating temperature
On Charge: -4°F (-20°C) to 122°F (50°C)
Off Charge: -20°F (-30°C) to 113°F (45°C)

Standards

- Meets criteria for “non-spillable” batteries
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

Cell Type	Number of cells	Nominal Capacity (Ah)		Nominal Dimensions						Weight - Volumes	
		10 hr rate to 1.80Vpc @20°C	8 hr rate to 1.75Vpc @77°F	Length		Width		Height		Unpacked lbs	kg
				in	mm	in	mm	in	mm		
4VX105	2	103	103	7.5	191	8.0	202	9.3	235	16.5	36.4
6VX105	3	103	103	7.5	191	8.0	202	9.3	235	22.0	48.5
6VX155	6	155	154	11.5	292	8.0	202	9.0	228	33.0	72.8
12VX100F	6	100	100	22.0	558	4.9	125	9.0	228	47.5	104.7
12VX105FS	6	105	105	22.1	561	4.9	125	9.0	228	40.5	90.4

