

RANGE SUMMARY

The PowerSafe™ V 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, PowerSafe V is recognized worldwide as the premium battery for Telecom applications. PowerSafe V'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.

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

PowerSafe V 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: 47Ah 516Ah
- Available in 2, 4, 6 and 12 volt blocs
- UL94 V-0 flame retardant container and cover
- Designed for a wide range of applications
- High reliability
- Proven long service life







Construction

- Positive and negative plates in lead-tincalcium alloy
- Separators in low resistance microporous glass fiber. The electrolyte is absorbed within this material, preventing acid spills in case of accidental damage
- Container and cover 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 PowerSafe V range is designed for installation in cabinets or on stands.
 A separate battery room is not necessary
- PowerSafe V blocs can be mounted in vertical or horizontal orientation
- Recommended float charge voltage 2.280Vpc at 68°F (20°C) or 2.265Vpc at 77°F (25°C)
- Six months shelf life at 68°F (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
- Designed to meet Telcordia SR-4228 requirements
- Recognized by UL (UL Standard 1989)
- Approved to be shipped as nonhazardous cargo in accordance with the requirements of IMDG (International Maritime code for Dangerous Goods) and OICA (Organization of International Civil Aviation)
- Manufactured in EnerSys production facilities certified to ISO 9001

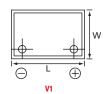
General Specifications

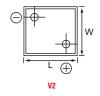
	Number of Cells	Nominal Voltage (V)	Nominal Capacity (Ah)		Nominal Dimensions										Termina	als
Туре			10 hr rate to 1.80Vpc @ 20°C	8 hr rate to 1.75Vpc @ 77°F	Length mm in		Wid mm	Width ⁽¹⁾ mm in		Overall Height ⁽²⁾ mm in		ical eight lbs	Short Circuit Current (A)	Internal Resistance (mΩ)	Туре	Layout
12V45	6	12	46	47	218	8.6	164	6.5	220	8.7	18.9	41.7	2019	6.2	M6 Female	V1
12V55	6	12	56	59	271	10.7	164	6.5	220	8.7	22.9	50.5	2470	5.1	M6 Female	V1
12V70	6	12	68	70	314	12.4	164	6.5	220	8.7	26.7	58.9	2550	4.9	M6 Female	V1
12V80	6	12	79	82	360	14.2	164	6.5	228	9.0	31.5	69.5	3500	3.6	M6 Female	V1
4V105	2	4	103	103	191	7.5	202	8.0	235	9.3	16.5	36.4	3560	1.1	M8 Male	V2
6V105	3	6	103	103	191	7.5	202	8.0	235	9.3	22.0	48.5	3560	1.7	M8 Male	V2
6V130	3	6	132	134	243	9.6	206	8.1	234	9.2	27.9	61.5	4846	1.3	M8 Female	V2
4V155	2	4	154	155	202	8.0	202	8.0	228	9.0	23.0	50.7	4800	0.80	M8 Male	V4
6V155	3	6	154	155	292	11.5	202	8.0	228	9.0	33.0	72.8	4800	1.2	M8 Male	V5
6V165/2	3	6	173	172	296	11.7	204	8.0	234	9.2	34.1	75.2	5728	1.1	M8 Female	V2
2V200	1	2	200	194	110	4.3	208	8.2	260	10.2	13.9	30.6	5833	0.36	M8 Female	V3
4V230	2	4	231	232	292	11.5	202	8.0	228	9.0	32.5	71.7	7207	0.56	M8 Male	V4
2V275	1	2	275	267	142	5.6	208	8.2	260	10.2	18.5	40.8	7000	0.30	M8 Female	V3
2V310	1	2	308	309	202	8.0	202	8.0	228	9.0	23.0	50.7	9259	0.22	M8 Male	V4
2V320	1	2	320	329	195	7.7	208	8.2	242	9.5	22.0	48.5	10000	0.20	M8 Female	V4
2V400/2	1	2	400	388	195	7.7	208	8.2	260	10.2	26.2	57.8	9545	0.22	M8 Female	V3
2V460/4	1	2	462	464	292	11.5	202	8.0	228	9.0	32.5	71.7	10929	0.18	M8 Male	V4
2V460/6	1	2	462	464	292	11.5	202	8.0	228	9.0	33.0	72.8	10929	0.18	M8 Male	V5
2V500/2	1	2	500	484	238	9.4	208	8.2	260	10.2	32.5	71.7	11667	0.18	M8 Female	V3
2V500/6	1	2	518	516	296	11.7	204	8.0	240	9.4	34.7	76.5	16154	0.13	M8 Female	V5

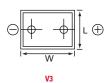
Notes

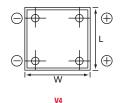
In horizontal installation, the width of PowerSafe V top terminal blocs becomes the height, irrespective of positive and negative polarities.

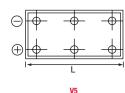
Terminal Layouts











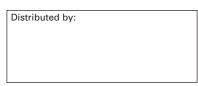


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⁽²⁾ Overall height includes insulating covers.