PowerSafe® V Top Terminal

Telecommunications, Uninterruptible Power Supply

Battery Range Summary

The PowerSafe® V range of Valve Regulated Lead Acid (VRLA) batteries has been designed specifically for use in applications that demand the highest levels of security and reliability. With compliance to the most rigorous international standards, PowerSafe V batteries are recognized worldwide as the premium battery for Telecom applications. The reputation of the PowerSafe V batteries for long service life, together with excellent high rate performance, also makes it the number one choice for high intergrity, high specfication Uninterruptible Power Supplu (UPS) applications.

PowerSafe V batteries deliver superior performance while occupying less space than conventional standby power batteries. The use of flame retardant Acrylonitrile Butadiene Styrene (ABS) UL94 V-0 material for the thick wall containers and covers offer high mechanical strength with excellent safety features.

Features and Benefits

- Capacity range 46 - 518Ah
- Available in 2, 4, 6 and 12 volt units
- UL94 V-0 flame retardant containers and lids
- Designed for a wide range of applications
- High reliability
- Excellent service life
- Small footprint

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Construction

- Positive plates designed to prolong service life and enhanced corrosion resistance
- Separators in low resistance microporous glass fiber
- Durable, high resistance to shock and vibration flame restardant ABS material
- Terminals with brass insert for maximum conductivity and high compression grommet for long life
- Self-regulating pressure relief valves prevent ingress of atmospheric oxygen

Installation and Operation

- PowerSafe® V blocs are designed for installation in cabinets or on stands
- Blocs can be mounted in vertical or horizontal position
- Six months shelf life at 68°F (20°C)
- Reduced maintenance; no water addition required
- Recommended float charge voltage: 2.280 Vpc at 68°F (20°C) or 2.265 Vpc at 77°F (25°C)

Standards

- In compliance with the requirements of the international IEC 608896-21/22 standard
- Designed to meet Telcordia® SR-4228 requirements
- Recognized by UL Standard 1989
- Approved to ship as non-hazardous cargo in accordance with the requirmenets of International Maritime code for Dangerous Goods (IMDG) and Organization of International Civil Aviation (OICA)
- The management system governing the manufacture of this product is ISO 9001-2008 certified

General Specifications

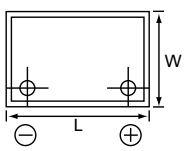
Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah) 8hr. Rate 1.75Vpc @77°F (25°C)	Nominal Capacity (Ah) 10hr. Rate 1.80Vpc @68°F (20°C)	Nominal Dimensions Length in	Length mm	Width in	Width mm	Height* in	Height* mm	Height Over Connections** in	Height Over Connections** mm	Typical Weight lb	Typical Weight kg	Short Circuit Current† (A)	Internal Resistance† (mΩ)	Terminals Type	Terminals Layout
12V45	12	46	47	8.58	218	6.45	164	8.03	204	8.82	224	37.9	17.2	1377	9.01	M6 F	V1
12V55	12	56	59	10.7	271	6.45	164	8.03	204	8.82	224	46.3	21.0	1785	6.90	M6 F	V1
12V70	12	68	70	12.4	314	6.45	164	8.03	204	8.82	224	54.9	24.9	2184	5.60	M6 F	V1
12V95	12	95	95	11.9	302	6.89	175	8.94	227	9.72	247	73.2	33.2	2586	4.88	M6 F	V1
4V105	4	103	103	7.52	191	7.95	202	9.25	235	9.25	235	35.1	15.9	2463	1.69	M8 M	V2
6V105	6	103	104	7.52	191	7.95	202	9.25	235	9.25	235	45.0	20.4	2786	2.21	M8 M	V2
6V130	6	132	134	9.57	243	8.11	206	9.21	234	9.57	243	59.1	26.8	3104	1.99	M8 F	V2
4V155	4	154	155	7.95	202	7.95	202	8.98	228	8.98	228	50.7	23.0	4800	0.80	M8 M	V4
6V155	6	154	155	11.5	292	7.95	202	8.98	228	8.98	228	72.8	33.0	4800	1.20	M8 M	V5
6V170	6	173	173	11.9	302	6.89	175	9.06	230	10.1	256	75.0	34.0	3814	1.62	M8 F	V2
2V200	2	200	194	4.33	110	8.18	208	9.72	247	10.6	270	28.2	12.8	3588	0.58	M8 F	V3
4V230	4	231	232	11.5	292	7.95	202	8.98	228	8.98	228	71.7	32.5	6082	0.68	M8 M	V4
2V275	2	275	267	5.59	142	8.18	208	9.72	247	10.6	270	36.6	16.6	4707	0.44	M8 F	V3
2V310	2	308	309	7.95	202	7.95	202	8.98	228	8.98	228	50.7	23.0	9259	0.22	M8 M	V4
2V320	2	320	329	7.68	195	8.18	208	8.62	219	9.65	245	48.5	22.0	9675	0.22	M8 F	V4
2V400/2	2	400	388	7.68	195	8.18	208	9.72	247	10.6	270	52.0	23.6	5976	0.35	M8 F	V3
2V460/4	2	462	464	11.5	292	7.95	202	8.98	228	8.98	228	71.7	32.5	10929	0.18	M8 M	V4
2V460/6	2	462	464	11.5	292	7.95	202	8.98	228	8.98	228	72.8	33.0	10929	0.18	M8 M	V5
2V500/2	2	500	484	9.37	238	8.18	208	9.72	247	10.63	270	62.2	28.2	6971	0.29	M8 F	V3
2V500/6	2	518	516	11.7	296	8.03	204	9.45	240	9.45	240	73.6	33.4	10770	0.19	M8 F	V5

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

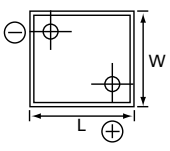
*** Overall height includes insulating covers.*

† Figures obtained via IEC 60896-21 method (±10%)

Terminal Layouts



V1



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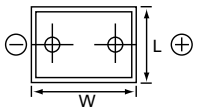

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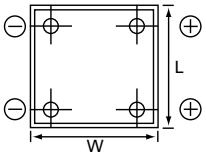
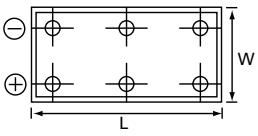


V4



V5

EnerSys® Power/Full Solutions

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