

RANGE SUMMARY

The PowerSafe[™] V Front Terminal 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 batteries are recognised worldwide as a premium solution for Telecom applications. The reputation of PowerSafe V batteries for long service life, together with excellent high rate performance, also makes it ideal for high integrity, high specification UPS systems.

PowerSafe V batteries deliver superior performance while occupying less space than conventional standby power batteries. A range of compact designs, suitable for 19", 23" and ETSI racking, provides users with the benefit of increased energy density. With all electrical connections at the front, installation and inspection are both quicker and easier.

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: 31Ah 170Ah
- Front terminal connections for fast and easy installation and maintenance
- Suitable for 19", 23" and ETSI racking
- UL94 V-0 flame retardant case and lid
- High reliability
- Proven long service life





Construction

- Positive plates designed to prolong service life and enhance corrosion resistance
- Separators in low resistance microporous glass fibre. The electrolyte is absorbed within this material, preventing acid spills in case of accidental damage
- Case and lid in flame retardant ABS material, highly resistant to shocks and vibrations
- Terminal with brass insert for maximum conductivity and with high compression grommet for long life
- Self-regulating pressure relief valve
 prevents ingress of atmospheric oxygen
- Flame arrestors built into each bloc for increased operational safety

Installation & Operation

- Monoblocs are designed for installation in cabinets or on stands, close to the point of use. A separate battery room is not necessary
- It is recommended that PowerSafe V Front Terminal monoblocs are installed on their base
- Recommended float charge voltage: 2.280Vpc at 20°C (68°F)
 2.265Vpc at 25°C (77°F)
- Six months shelf life at 20°C
- Reduced maintenance: no water addition required

Standards

- In compliance with the requirements of the international IEC 60896-21/22 standard
- Classified as "Long Life" according to the Eurobat Guide 1999
- Designed to meet Telcordia SR-4228 requirements
- Recognised 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 (Organisation of International Civil Aviation)
- Manufactured in EnerSys[®] production facilities certified to ISO 9001:2000

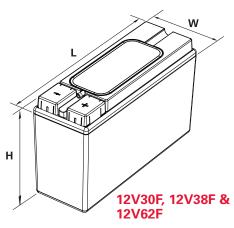
General Specifications

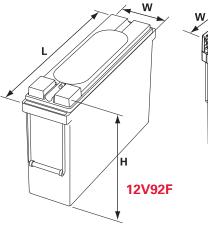
12V30F 12V38F	Number of Cells 6 6	Nominal Voltage (V) 12	10 hr rate to 1.80Vpc @ 20°C 31	8 hr rate to 1.75Vpc @ 77°F 31	mm	igth in	Wid	lth in	He	erall ight		oical eight	Short Circuit	Internal Resistance	Terminals
12V38F			31	31	200				mm	in	kg	lbs	Current (A) ⁽²⁾	(mΩ) ⁽²⁾	
	6	40			280	11.0	97	3.8	159	6.3	10.8	23.8	1327	9.87	M8 F
12V62F		12	38	38	280	11.0	97	3.8	184	7.2	12.5	27.6	1500	8.53	M8 F
	6	12	62	62	280	11.0	97	3.8	264	10.4	19.7	43.5	2100	5.87	M8 F
12V92F ⁽¹⁾	6	12	92	92	395	15.6	105	4.1	264	10.4	28.0	61.7	2500	5.05	M8 F
12V105F(1)	6	12	105	107	561	22.1	125	4.9	235	9.3	46.0	101.4	2763	4.40	M6 M
12V125F ⁽¹⁾	6	12	125	126	561	22.1	105	4.1	316	12.4	51.0	112.4	2845	4.30	M6 M
12V155FS ⁽¹⁾	6	12	150	155	561	22.1	125	4.9	283	11.1	57.0	125.6	3714	3.30	M6 M
12V170F ⁽¹⁾	6	12	170	170	561	22.1	125	4.9	316	12.4	67.0	147.7	3667	3.40	M6 M

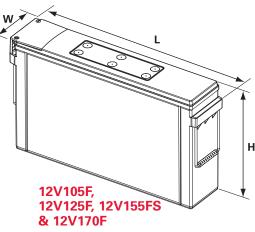
Notes:

⁽¹⁾ With rope handles

⁽²⁾ Figures obtained via IEC method







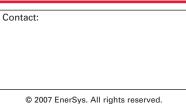


www.enersvs-emea.com

EnerSys P.O. Box 14145 Reading, PA 19612-4145 USA

USA Tel: +1-610-208-1991 +1-800-538-3627 Fax: +1-610-372-8613 EnerSys Europe Zurich, Switzerland Tel: +41 (0)44 215 74 10

EnerSys Asia Guangdong, China Tel: +86-755-2689 3639 EnerSys Ltd. Rake Lane, Clifton Junction, Swinton, Manchester M27 8LR, UK Tel: +44 (0)161 794 4611 Fax: +44 (0)161 727 3809



© 2007 EnerSys. All rights reserved. Trademarks and logos are the property of EnerSys and its affiliates unless otherwise noted.