

**NEW
PRODUCT**

PowerSafe®
V
F R O N T T E R M I N A L

The PowerSafe® V Front Terminal range of valve regulated lead acid batteries has been designed specifically for use in applications that 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.

The 12V101F front terminal monobloc is the latest addition to the hugely successful EnerSys® PowerSafe V battery range. The 12V101F offers significant space savings compared with other products available in the market. Reduced freight costs and easier handling and installation are just some of the benefits provided by the 12V101F.

Features & Benefits

- 12V, 100Ah monobloc (C₁₀/1.80Vpc/20°C)
- Compact design & superior energy density: more back-up power in same space
- Front terminal connections for fast and easy installation and maintenance
- Ideal for use in industry-standard power cabinets
- UL94 V-0 flame retardant case and lid
- Long design 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
- Built-in handles for ease of handling

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® 12V101F batteries 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

- Tested according to international standard IEC 60896-21 and compliant to defined requirements of IEC 60896-22
- 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 non-hazardous cargo in accordance with the requirements of IMDG (International Maritime code for Dangerous Goods) and ICAO (International Civil Aviation Organisation)
- Manufactured in EnerSys® ISO 9001:2000 and ISO 14001:2004 certified production facilities

General Specifications

	Nominal Voltage (V)	Nominal Capacity (Ah)		Nominal Dimensions						Typical Weight		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	kg	lbs			
12V101F	12	100	101	510	20.1	110	4.33	235	9.25	33.5*	73.9*	2108*	5.92*	M8 F

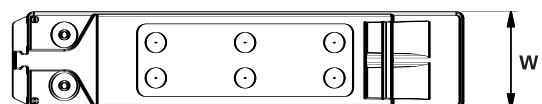
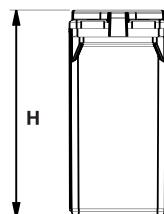
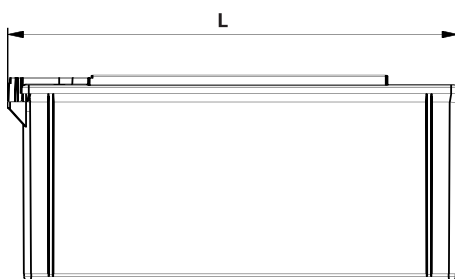
* Preliminary data. Please check latest information with your EnerSys representative

Discharge Currents (Amperes) at 20°C

Voltage (V)	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
1.60	305.2	211.2	165.0	141.9	123.3	108.5	97.8	88.8	81.8	75.7	70.5	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
1.63	305.2	211.2	165.0	141.9	123.3	108.5	97.8	88.8	81.8	75.7	70.5	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
1.65	305.2	211.2	165.0	141.9	123.3	108.5	97.8	88.8	81.8	75.7	70.5	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
1.67	298.1	208.3	163.4	140.9	122.5	108.0	97.4	88.5	81.6	75.5	70.4	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
1.71	282.0	201.6	159.6	138.2	120.6	106.6	96.3	87.6	80.9	74.9	69.9	68.1	48.3	38.6	32.3	28.0	22.0	18.1	15.7	13.7	12.5	11.2	10.3	8.60	4.20
1.73	272.9	197.6	157.3	136.5	119.3	105.6	95.5	87.0	80.4	74.5	69.5	68.1	48.0	38.3	32.1	27.8	21.9	18.0	15.6	13.6	12.5	11.2	10.2	8.60	4.20
1.75	262.9	193.0	154.6	134.4	117.8	104.3	94.5	86.1	79.6	73.9	69.0	68.0	47.6	38.0	31.9	27.6	21.8	17.9	15.5	13.6	12.5	11.1	10.2	8.60	4.20
1.80	233.1	178.7	145.5	127.5	112.3	99.9	90.7	82.9	76.8	71.3	66.7	66.0	46.1	36.8	30.9	26.7	21.3	17.7	15.2	13.4	12.0	10.9	10.0	8.40	4.20
1.85	195.3	159.1	132.3	117.0	103.8	92.8	84.6	77.5	72.0	67.0	62.8	61.5	43.4	34.7	29.1	25.2	20.1	16.8	14.6	12.9	11.5	10.3	9.40	8.00	4.20

Constant Power Discharge (Watts per cell) at 20°C

Voltage (V)	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
1.60	503.8	364.9	296.4	257.6	225.8	200.7	181.9	166.2	154.0	143.3	134.2	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
1.63	503.8	364.9	296.4	257.6	225.8	200.7	181.9	166.2	154.0	143.3	134.2	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
1.65	503.8	364.9	296.4	257.6	225.8	200.7	181.9	166.2	154.0	143.3	134.2	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
1.67	503.8	364.9	296.4	257.6	225.8	200.7	181.9	166.2	154.0	143.3	134.2	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
1.71	482.3	355.7	290.5	253.4	222.8	198.3	180.1	164.8	152.9	142.3	133.4	130.0	92.6	74.2	62.4	54.2	42.6	35.0	30.4	26.6	24.3	21.8	20.0	16.7	8.19
1.73	472.1	351.3	287.3	251.0	221.0	196.9	178.9	163.8	152.1	141.6	132.8	130.0	92.1	73.7	62.0	53.9	42.4	34.9	30.2	26.4	24.3	21.8	19.8	16.7	8.19
1.75	460.0	345.9	283.5	248.2	218.8	195.1	177.5	162.6	151.0	140.7	132.1	130.2	91.6	73.3	61.6	53.5	42.2	34.7	30.0	26.4	24.3	21.6	19.8	16.7	8.19
1.80	419.6	326.3	269.3	237.2	210.0	187.8	171.3	157.3	146.4	136.6	128.3	126.8	88.9	71.1	59.8	51.9	41.5	34.4	29.5	26.1	23.3	21.3	19.5	16.4	8.21
1.85	361.3	296.0	247.6	219.7	195.5	175.4	160.6	147.9	138.0	129.0	121.4	118.8	84.1	67.4	56.7	49.2	39.3	32.8	28.5	25.2	22.4	20.1	18.4	15.6	8.23



www.enersys-emea.com

EnerSys
P.O. Box 14145
Reading, PA 19612-4145
USA
Tel: +1-610-208-1991
+1-800-538-3627
Fax: +1-610-372-8613

EnerSys Europe
Zurich, Switzerland

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

Contact:

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