PowerSafe®
V

INTRODUCTION TO THE 6V170 MONOBLOC

The EnerSys® range of PowerSafe® V 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 the number one choice for high integrity, high specification UPS systems.

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

EnerSys is pleased to announce the launch of the 6V170, an exciting addition to its already extremely successful PowerSafe V product range. The 6V170 monobloc offers a significant improvement in performance and will progressively replace the existing 6V165/2. It is expected to be an attractive solution, in particular for the UPS industry.

Features & Benefits

- 6V, 173Ah monobloc (C_{10}/1.80Vpc/20°C)

- Class-leading volumetric energy density

- High integrity, compact design

- Suitable for both telecom and UPS applications

- UL94 V-0 flame retardant case and lid

- Classified as "Long Life" (Eurobat)

- Manufactured in EnerSys ISO™ 9001:2000 and ISO 14001:2004 certified production facilities

EnerSys® | RESERVE POWER

Power/Full Solutions

Construction

- High performance positive plates designed for long life and efficient recharge

- Negative plates provide perfect balance with positive plates to ensure optimum recombination efficiency

- Separators in low resistance microporous glass fibre. The electrolyte is absorbed within this material, preventing acid spills in case of accidental damage

- Electrolyte - high grade dilute sulphuric acid absorbed into separator material

- Containers and lid in flame retardant UL94 V-0 ABS material, highly resistant to shock and vibration

- High integrity dual pillar seal design to ensure leak-free operation

- Self regulating pressure relief valves - prevent ingress of atmospheric oxygen

- A strong, detachable handle, designed to provide maximum flexibility during installation, is supplied with every pallet/case

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® 6V170 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 20ºC

- Reduced maintenance:
  no water addition required

Standards

- Designed to comply with the requirements of the international IEC 60896-21/22 standard

- Classified as "Long Life" according to Eurobat Guide 1999

- Recognised by UL (UL Standard 1989)

- Approved to be shipped as non-spillable 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
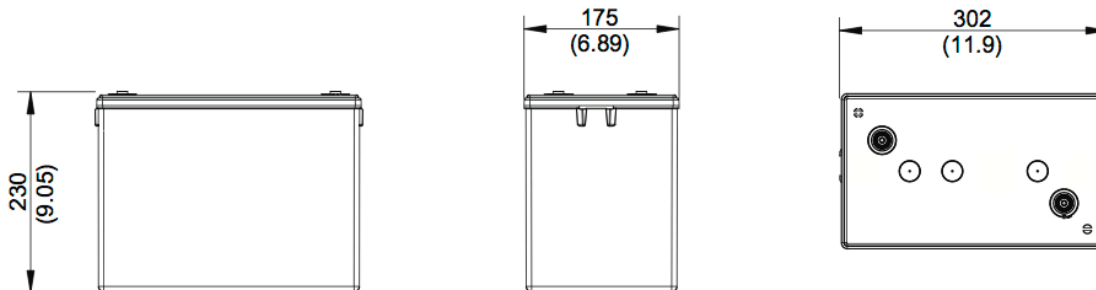
General Specifications

| Battery Type | Nominal Voltage (V) | Nominal Capacity (Ah) | | Nominal Bloc Dimensions | | | | | | Typical Weight | | Terminals |
		10 hr rate to 1.80Vpc @ 20°C	8 hr rate to 1.75Vpc @ 77°F	Length mm	in	Width mm	in	Height* mm	in	kg	lbs	
6V170	6	173	173	302	11.9	175	6.89	230	9.05	34.0	75.0	M8 F

*Maximum overall height including standard shrouds is 256.0mm

6V170: Selected Performance over 6V165/2

	PowerSafe 6V170	PowerSafe 6V165/2	Improvement
10 minute power rate to 1.67Vpc at 20°C	828 Wpc	739 Wpc	over 12%
15 minute power rate to 1.67Vpc at 20°C	660 Wpc	586 Wpc	over 12%

Outline Drawings

230 (9.05)

175 (6.89)

302 (11.9)

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Contact: