

BATTERY RANGE SUMMARY

The SuperSafe[®] OPzV range of valve regulated lead-acid batteries uses a proven combination of gel and tubular technologies to offer a very high level of reliability. These single cells benefit from an optimised plate design that gives capacities in excess of the DIN standard values. In addition, the SuperSafe OPzV range of batteries offers both an excellent float life and a high cycle life for a truly flexible solution.

The EnerSys[®] range of SuperSafe OPzV batteries is suitable for a broad range of applications including telecommunications, telephony, power generating stations and distribution systems, railway, airport and seaport signalling, computing, emergency lighting, automation and measuring systems.

Features & Benefits

- Capacity range: 215Ah to 3170Ah
- C₁₀ capacities exceed the DIN standard values
- 20 year design life at 20°C
- Excellent deep discharge recovery and cyclability
- Superior operational safety with fully insulated connectors, immobilised electrolyte and one way pressure relief valve with an integral flame arrestor
- Easy installation: vertical or horizontal position
- Very low maintenance: no water addition



Construction

- Positive electrode - tubular plate with lead-tin-calcium alloy
- Negative electrode - flat plate with lead-calcium alloy grid
- Separator - low resistance microporous material
- Case material - container and lid in ABS; optional flame retardant ABS available (UL94 V-0)
- Electrolyte - sulphuric acid, immobilised as a gel
- Terminal design - terminals with brass insert and M10 stainless steel bolts. Coloured washers are provided for easy polarity recognition

- Connectors - insulated solid copper connector (30 x 3mm) for vertical installations or insulated flexible cable connectors (70mm²) for horizontal installations. Each connector design is of the bolt-on type and allows for voltage measurements
- Pressure relief valve - one way valve with integral flame arrestor

Installation & Operation

- Recommended float charge voltage: 2.25Vpc (20°C)
- Cells can be installed horizontally to minimise use of floor space
- Optional racking offers easy installation and space saving accommodation

Standards

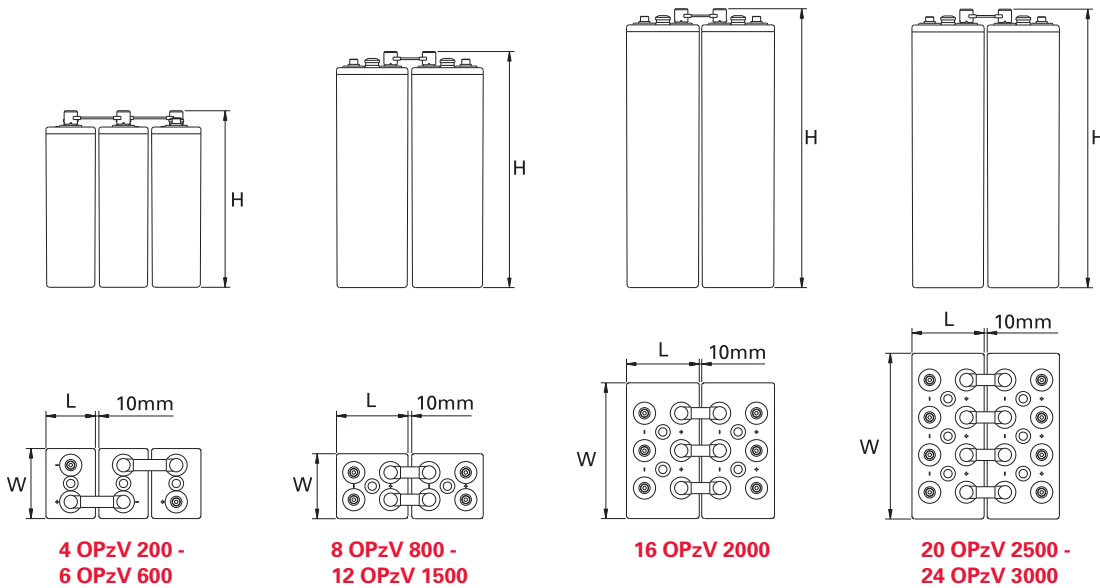
- Tested according to international standard IEC 60896-21 and compliant to defined requirements of IEC 60896-22
- Conforms to the DIN standard 40742 (valve regulated OPzV single cells)
- Classified as "long life" according to the EUROBAT guide 1999
- Proof against deep discharge according to DIN 43539 Part 5
- Low ventilation requirement according to EN 50272-2
- Manufactured in EnerSys® ISO™ 9001:2000 and ISO 14001:2004 certified production facilities

General Specifications

SuperSafe® OPzV Cell Types	Nominal Voltage (V)	Terminal Pairs	Nominal Capacity (Ah)		Nominal Dimensions						Typical Weight		Short Circuit Current (A)	Internal Resistance (mΩ)
			10 hr rate to 1.80Vpc @ 20°C	8 hr rate to 1.75Vpc @ 77°F	Length		Width		Height		kg	lbs		
4 OPzV 200	2	1	215	215	103	4.1	206	8.1	403	15.8	19.5	43.0	2195	0.95
5 OPzV 250	2	1	265	265	124	4.9	206	8.1	403	15.8	23.5	51.9	2737	0.76
6 OPzV 300	2	1	320	320	145	5.7	206	8.1	403	15.8	28.0	61.8	3175	0.66
5 OPzV 350	2	1	385	385	124	4.9	206	8.1	520	20.3	31.0	68.4	3410	0.61
6 OPzV 420	2	1	465	465	145	5.7	206	8.1	520	20.3	36.5	80.5	4043	0.51
7 OPzV 490	2	1	540	540	166	6.5	206	8.1	520	20.3	42.0	92.6	4607	0.45
6 OPzV 600	2	1	705	705	145	5.7	206	8.1	695	27.3	50.0	110.3	3796	0.55
8 OPzV 800	2	2	940	940	210	8.2	191	7.5	695	27.3	68.0	150.0	5200	0.40
10 OPzV 1000	2	2	1170	1170	210	8.2	233	9.2	695	27.3	82.0	180.8	6460	0.32
12 OPzV 1200	2	2	1410	1410	210	8.2	275	10.8	695	27.3	97.0	213.9	7675	0.27
12 OPzV 1500	2	2	1580	1580	210	8.2	275	10.8	845	33.3	120.0	264.6	7510	0.28
16 OPzV 2000	2	3	2110	2110	212	8.3	397	15.6	820	32.3	165.0	363.8	10048	0.21
20 OPzV 2500	2	4	2640	2640	212	8.3	487	19.2	820	32.3	200.0	441.0	12606	0.17
24 OPzV 3000	2	4	3170	3170	212	8.3	576	22.3	820	32.3	240.0	529.2	14964	0.14

Notes:

The electrical values shown in the table relate to loadings from a fully charged condition at ambient temperature of +20°C. Height shown is overall height, including connectors and shrouds.



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
Löwenstrasse 32
8001 Zurich, Switzerland

EnerSys Asia
152 Beach Road
Gateway East Building,
Level 11
189721 Singapore
Tel. +65 6508 1780 9

Contact:
Light Technologies Co., Ltd.
Tel: +86-755-61289329
Fax: +86-755-61624455
www.light-corp.cn

© 2010 EnerSys. All rights reserved. Trademarks and logos are the property of EnerSys and its affiliates, except ISO™, which is not the property of EnerSys.