

Battery Range Summary

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

The PowerSafe 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 PowerSafe OPzV range of batteries offers both an excellent float life and a high cycle life for a truly flexible solution.



- 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
- 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 "Very Long Life" (> 12 years) according to the Eurobat guide 2015
- Proof against deep discharge according to DIN 43539 Part 5
- · Low ventilation requirement according to EN 50272-2 and IEC 62485-2
- The management systems governing the manufacture of PowerSafe® OPzV products are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

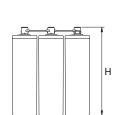
	Nominal (V)	Terminal Pairs	Nominal Capacity (Ah)		Nominal Dimensions (mm)					
Battery Type			10 hr rate to 1.80Vpc @ 20°C	8 hr rate to 1.75Vpc @ 77°F	Length	Width	Height	Typical Weight (kg)	Short Circuit Current (A)	Internal Resistance (mΩ)
4 OPzV 200	2	1	215	215	103	206	403	19.5	2195	0.95
5 OPzV 250	2	1	265	265	124	206	403	23.5	2737	0.76
6 OPzV 300	2	1	320	320	145	206	403	28.0	3175	0.66
5 OPzV 350	2	1	385	385	124	206	520	31.0	3410	0.61
6 OPzV 420	2	1	465	465	145	206	520	36.5	4043	0.51
7 OPzV 490	2	1	540	540	166	206	520	42.0	4607	0.45
6 OPzV 600	2	1	705	705	145	206	695	50.0	3796	0.55
8 OPzV 800	2	2	940	940	210	191	695	68.0	5200	0.40
10 OPzV 1000	2	2	1170	1170	210	233	695	82.0	6460	0.32
12 OPzV 1200	2	2	1410	1410	210	275	695	97.0	7675	0.27
12 OPzV 1500	2	2	1600	1600	210	275	845	120.0	7510	0.28
16 OPzV 2000	2	3	2110	2110	212	397	820	165.0	10048	0.21
20 OPzV 2500	2	4	2640	2640	212	487	820	200.0	12606	0.17
24 OPzV 3000	2	4	3170	3170	212	576	820	240.0	14964	0.14

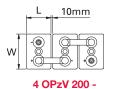
Notes:

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.

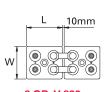
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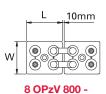
Outline Drawings



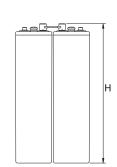


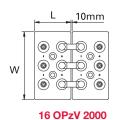
6 OPzV 600

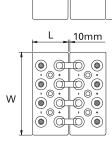




12 OPzV 1500







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20 OPzV 2500 -24 OPzV 3000



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