



PowerSafe® OPzV

Rail Signaling, Renewables and Utility

Battery Range Summary

Engineered with an optimized plate design, Powersafe® OPzV Valve Regulated Lead Acid (VRLA) batteries feature increased capacity exceeding the DIN standard. Additionally, the die cast tubular plate design offers excellent cycling and proven long life under float conditions. The pasted negative flat plate design provides the perfect balance for maximum performance.

Combined with the above, the immobilized gel electrolyte, color coded terminals, bolt on type connectors, a pressure relief valve and optional racking configuration make the PowerSafe OPzV VRLA batteries one of the safest and easiest to use on the market.



Features and Benefits

- Capacity range 215 - 3170Ah
- Lead-calcium alloy
- Exceeds DIN standards for performance
- Very low maintenance
- Easy installation: vertical or horizontal
- Immobilized sulfuric acid electrolyte
- Proven 20 plus year service life

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Construction

- Tubular positive lead-calcium alloy grid
- Negative flat plate with lead-calcium grid
- Fully insulated copper connectors
- Acrylonitrile Butadiene Styrene (ABS) jar and cover; optional flame retardant ABS available (UL94 V-0)
- Color coded terminals for easy polarity recognition
- Low resistance microporous separator material
- Pressure Relief Valve (PRV) with integral flame arrestor

Installation and Operation

- Efficient footprint
- Horizontal or vertical installation
- Very low maintenance: no water addition required
- Easy voltage measurement points
- Excellent deep discharge recovery and cyclability
- Optional racking offers easy installation
- Operating temperature: -4°F (20°C) to 140°F (60°C)
Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

- IEC 60896-21 and 60896-22
- DIN 40742
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

Cell Type	Nominal Ah Capacity*	Nominal Dimensions						Weight - Volumes					
		Length		Width		Height		Unpacked		Electrolyte only 1.300 S.G.			
		in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	liters
4 OPzV 200	215	4.1	103	8.1	206	15.9	403	43.0	19.5	10.1	4.6	0.9	3.4
5 OPzV 250	265	4.9	124	8.1	206	15.9	403	51.9	23.6	12.5	5.7	1.2	4.6
6 OPzV 300	320	5.7	145	8.1	206	15.9	403	61.8	28.0	15.0	6.8	1.4	5.3
5 OPzV 350	385	4.9	124	8.1	206	20.5	520	68.4	31.0	16.5	7.5	1.6	6.1
6 OPzV 420	465	5.7	145	8.1	206	20.5	520	80.5	36.5	20.0	9.1	1.9	7.2
7 OPzV 490	540	6.5	166	8.1	206	20.5	520	92.6	42.0	23.3	10.6	2.2	8.4
6 OPzV 600	705	5.7	145	8.1	206	27.4	695	110.3	50.0	27.5	12.5	2.6	9.9
8 OPzV 800	940	8.3	210	7.5	191	27.4	695	150.0	68.0	36.1	16.4	3.4	12.9
10 OPzV 1000	1170	8.3	210	9.2	233	27.4	695	180.8	82.0	45.1	20.5	4.2	16.0
12 OPzV 1200	1410	8.3	210	10.8	275	27.4	695	213.9	97.0	53.9	24.5	5.1	19.4
12 OPzV 1500	1580	8.3	210	10.8	275	33.3	845	264.6	120.0	67.5	30.7	6.3	23.9
16 OPzV 2000	2110	8.3	212	15.6	397	32.3	820	363.8	165.0	99.7	45.3	9.3	35.3
20 OPzV 2500	2640	8.3	212	19.2	487	32.3	820	441.0	200.0	114.2	51.9	10.7	40.7
24 OPzV 3000	3170	8.3	212	22.3	576	32.3	820	529.2	240.0	141.0	64.1	13.2	13.1

* Nominal Ah capacity is based on an 8 hour discharge rate to 1.75 volts per cell @ 77°F (25°C)

