



PowerSafe® OPzS

Rail Signaling, Renewables and Utility

Battery Range Summary

Engineered with an optimized plate design, the Powersafe® OPzS batteries feature increased capacity exceeding the DIN standard. Additionally the die cast tubular plate with low antimony content offers excellent cycling capabilities and a proven long life under float conditions. The pasted negative flat plate design provides the perfect balance for maximum performance.

Combined with the features above, a molded transparent Styrene Acrylonitrile (SAN) jar which allows for easy visual check of the electrolyte level, color coded terminals for easy polarity recognition, a single cell per jar design for simple maintenance, and brass inserted posts enabling high rate capability make the PowerSafe OPzS batteries ideal for a wide range of applications.



Features and Benefits

- Capacity range 217 - 3543Ah
- Low antimony lead alloy
- Single cell design for easy maintenance
- 3 year watering interval
- Brass inserted posts for high rate performance
- Fully insulated, solid copper inter-cell connectors
- Transparent containers for electrolyte level verification
- Color coded terminals for easy polarity recognition
- Proven 20 plus year service life

Construction

- Die-cast tubular positive grids with low antimony lead for longer life
- Pasted negative flat plates for maximum performance
- Unique microporous material separators
- Molded durable transparent Styrene Acrylonitrile jar (SAN) and Acrylonitrile Butadiene Styrene (ABS) cover
- Dilute sulfuric acid electrolyte with specific gravity of 1.240
- Lead alloy leak proof terminal and fully insulated solid copper inter-cell connectors
- Safety vent plugs equipped with flame arrestors, standard

Installation and Operation

- Efficient footprint
- 3 year watering interval
- Solid copper inter-cell connectors allow for voltage measurements
- Designed to be rack mounted
- Transparent jar for electrolyte level verification and cell condition inspection
- Optional vent plugs available which allow for watering and specific gravity readings without removal
- Operating temperature: 32°F (0°C) to 104°F (40°C)
Recommended temperature: 68°F (20°C) to 86°F (30°C)

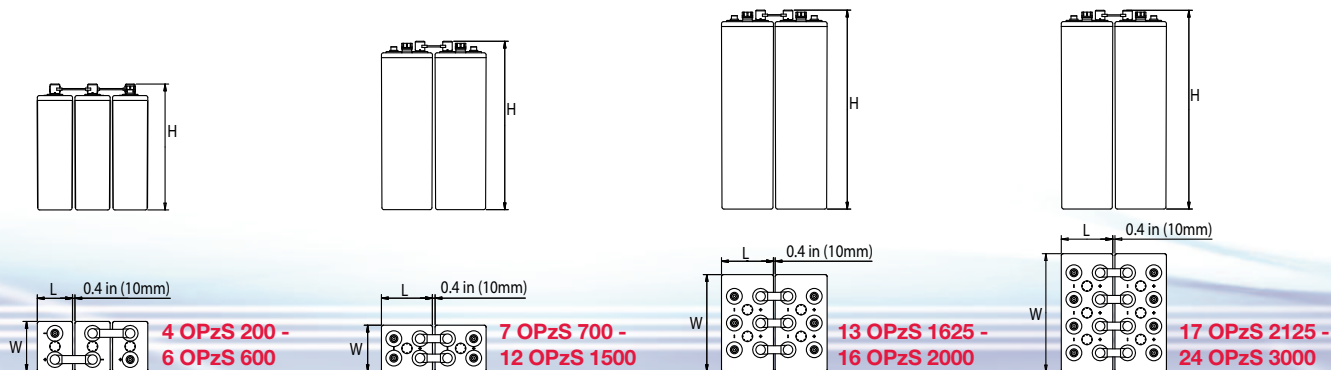
Standards

- Compliant with DIN 40736-1
- Compliant with IEC 60896-11
- 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 1.240 S.G.			
		in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	liters
4 OPzS 200	217	4.1	103	8.1	206	15.9	403	37.8	17.2	10.6	4.8	1.0	3.9
5 OPzS 250	266	4.9	124	8.1	206	15.9	403	45.8	20.8	13.4	6.1	1.3	4.9
6 OPzS 300	319	5.7	145	8.1	206	15.9	403	53.5	24.3	15.8	7.2	1.5	5.8
5 OPzS 350	388	4.9	124	8.1	206	20.5	520	59.2	26.9	18.3	8.3	1.8	6.7
6 OPzS 420	466	5.7	145	8.1	206	20.5	520	69.3	31.5	21.8	9.9	2.1	8.0
7 OPzS 490	543	6.5	166	8.1	206	20.5	520	79.4	36.1	25.4	11.5	2.5	9.3
6 OPzS 600	648	5.7	145	8.1	206	27.4	695	98.6	44.8	30.3	13.7	2.9	11.1
7 OPzS 700	798	8.3	210	7.5	191	27.4	695	126.7	57.6	40.4	18.3	3.9	14.8
8 OPzS 800	856	8.3	210	7.5	191	27.4	695	134.9	61.3	39.6	18.0	3.8	14.5
9 OPzS 900	1013	8.3	210	9.2	233	27.4	695	156.0	70.9	50.2	22.8	4.9	18.4
10 OPzS 1000	1071	8.3	210	9.2	233	27.4	695	164.1	74.6	49.4	22.4	4.8	18.1
11 OPzS 1100	1227	8.3	210	10.8	275	27.4	695	185.7	84.4	56.8	25.8	5.5	20.8
12 OPzS 1200	1293	8.3	210	10.8	275	27.4	695	193.6	88.0	56.2	25.5	5.4	20.6
11 OPzS 1375	1631	8.3	210	10.8	275	33.3	845	239.8	109.0	75.4	34.2	7.3	27.6
12 OPzS 1500	1730	8.3	210	10.8	275	33.3	845	251.5	114.3	74.5	33.8	7.2	27.3
13 OPzS 1625	1969	8.4	214	15.7	399	32.3	820	308.0	140.0	108.1	49.0	10.5	39.6
14 OPzS 1750	2092	8.4	214	15.7	399	32.3	820	316.8	144.0	108.1	49.0	10.5	39.6
15 OPzS 1875	2208	8.4	214	15.7	399	32.3	820	327.8	149.0	106.2	48.2	10.3	38.9
16 OPzS 2000	2307	8.4	214	15.7	399	32.3	820	333.3	151.5	106.5	48.3	10.3	39.0
17 OPzS 2125	2546	8.3	212	19.2	487	32.3	820	396.0	180.0	132.4	60.1	12.8	48.5
18 OPzS 2250	2669	8.3	212	19.2	487	32.3	820	404.8	184.0	130.5	59.2	12.6	47.8
19 OPzS 2375	2785	8.3	212	19.2	487	32.3	820	415.8	189.0	129.7	58.8	12.5	47.5
20 OPzS 2500	2884	8.3	212	19.2	487	32.3	820	424.6	193.0	130.0	58.9	12.6	47.6
22 OPzS 2750	3238	8.3	212	22.7	576	32.3	820	495.0	225.0	157.8	71.6	15.3	57.8
24 OPzS 3000	3543	8.3	212	22.7	576	32.3	820	515.9	234.5	154.0	69.8	14.9	56.4

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



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