PowerSafe® DDr

Rail signaling

Battery Range Summary

The PowerSafe® DDr battery range offers an ideal solution for railroad signal and communication applications. The battery is designed with several integral features that not only increase performance, reduce maintenance and maximize life.

The valve regulated lead acid (VRLA) recombinant technology means no watering is required throughout the life of the product, yielding reduced overall maintenance costs. The battery features a welded/epoxy, dual post seal design which provides the highest integrity seal in the industry.

Each DDr battery is protected in a dedicated protective steel case that maintains constant, uniform compression for the life of the cell, preventing separation of the internal components and dry out of the Advanced Glass Mat (AGM) material.

To make installation quick, easy and safer the DDr batteries include integral handles that allow for simple installation even in the most challenging situations.

Features and Benefits

- Capacity range 105 - 500Ah
- Lead-calcium alloy
- VRLA recombinant technology – no watering required
- Steel can construction offers protection in rugged conditions
- Cells can be installed horizontally or vertically
- 100% “out of the box” initial capacity
- 20 year design life in float conditions at 77ºF (25ºC)

Construction

- 0.25" thick positive lead-calcium-tin grids minimize corrosion and prolong life
- Balanced plate design grid optimizes recombination efficiency
- Advanced Glass Mat (AGM) separator is a mechanically strong microporous glass fiber which offers low electrical resistance
- Single, one piece container construction sealed from the factory
- Terminal design includes threaded copper inserts for high rate performance
- Pressure Relief Valve (PRV) operates at 2-3 psi and includes integral flame arrestor

Installation and Operation

- Compact, quick and simple installation process
- Integral handles for easy handling
- Low maintenance – no watering required
- Thick plates, single piece container construction, robust construction for long life
- Welded/epoxy dual post seal design means zero leaks
- 100% "out of the box" initial capacity
- Operating temperature: -4ºF (-20ºC) to 122ºF (50ºC) Recommended temperature: 68ºF (20ºC) to 86ºF (30ºC)

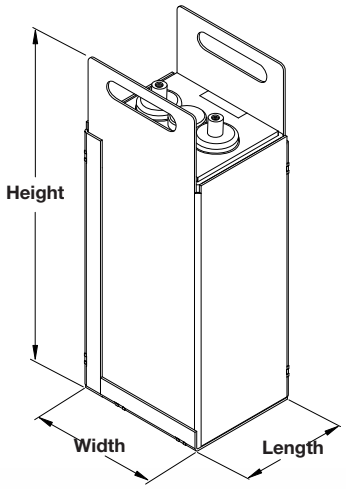
Standards

- Approved for air transportation (IATA A67)
- Non-Spillable classification (UN2800)
- Recognized by UL (UL Standard 1989)
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

		Nominal Dimensions						Weight - Volumes					
Battery Type	Nominal Ah Capacity*	Length		Width		Height		Unpacked		Electrolyte only 1.300 S.G.			
		in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	liters
DDr 35-07	100	2.4	61	6.5	165	16.5	419	30.0	13.6	4.0	1.8	0.4	1.4
DDr 50-09	200	3.9	99	6.5	165	16.5	419	40.9	18.6	6.5	3.0	0.6	2.3
DDr 50-13	300	5.4	137	6.5	165	16.5	419	57.4	26.1	10.4	4.7	1.0	3.6
DDr 50-17	400	6.9	176	6.5	165	16.5	419	74.7	34.0	14.1	6.4	1.3	4.9
DDr 50-21	500	8.4	214	6.5	165	16.5	419	92.0	41.7	19.4	9.0	1.8	7.0

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



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