PowerSafe® CA-M

Switchgear, Telecommunications and Utility

Battery Range Summary

Engineered to meet the requirements of the power industry, the industry leading features inherent to the PowerSafe® CA-M battery make it one of the best in the market. The CA-M battery features antimony plates which demonstrate maximized performance in cycling applications, allow the battery to tolerate high temperatures and along with thick positive grids make the CA-M series of batteries one of the most rugged in the market. The jar design allows for more free electrolyte enabling the CA-M battery to be offered with 100% initial capacity.

Designed for easier maintenance, all of the posts and connectors reside above the cell cover meaning maintenance routines including cell monitoring and measurements are simplified. The CA-M series of batteries also includes a Slide Lock™ post seal that allows for natural plate growth over time. The innovative tongue-and-groove jar-to-cover seal provides reliability with a robust airtight seal.

Combine the standard square plate design which enhances high rate performance and the multi-cell construction that reduces maintenance time, it is no surprise that the CA-M battery has long set the standard to which all other batteries are compared.

Features and Benefits

- Capacity range 50 - 200Ah
- Lead-antimony alloy
- Electrolyte reserve reduces watering requirements
- Standard Styrene Acrylonitrile (SAN) jar with flame retardant UL94 V-0 PVC cover; flame retardant jar available
- Lead-antimony grids maximize performance in cycling applications
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature

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Construction

- 0.28" thick positive plates provide excellent long discharge rates and long life
- Square plate configuration enhances high rate performance
- Separator – microporous rubber with "Vitrex" glass fiber retainers
- Multi-cell construction, standard jar material styrene acrylonitrile (SAN) with flame retardant polycarbonate optional. Cover is flame retardant UL94 V-0 PVC
- Electrolyte – dilute sulfuric acid with specific gravity of 1.215 (1.250 available upon request)
- Individual posts to monitor individual cell performance
- Slide-Lock™ post seal design
- Flame arrestors – included for increased operational safety

Installation and Operation

- Space efficient footprint
- Designed to be rack mounted
- Excellent long discharge and complex duty cycle capability
- 20 year life expectancy in float service at 77°F (25°C)
- All posts and connectors reside above the cell cover for easier maintenance, cell monitoring and measurements
- Lead-antimony alloy allows for longer life at higher temperatures
- Operating temperature: 32°F (0°C) to 104°F (40°C) Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

		Nominal Dimensions						Weight - Volumes					
		Length**		Width		Height		Unpacked		Electrolyte only 1.215 S.G.			
Cell Type	Nominal Ah Capacity*	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	liters
3CA-3M	50	7.0	178	9.0	229	14.8	375	57.0	25.9	16.1	7.3	1.6	6.1
3CA-5M	100	7.0	178	9.0	229	14.8	375	74.0	33.6	15.0	6.8	1.5	5.7
3CA-7M	150	12.2	310	9.0	229	14.8	375	113.7	51.7	33.0	15.0	3.3	12.5
3CA-9M	200	12.2	310	9.0	229	14.8	375	131.8	59.9	33.0	15.0	3.2	12.1

** Nominal Ah capacity is based on an 8 hour rate to 1.75 volts per cell @ 77°F (25°C).*
Note: 2 cell jars available to complete strings where needed.
*** 0.25" must be added between cells for spacing purposes when calculating total battery length.*

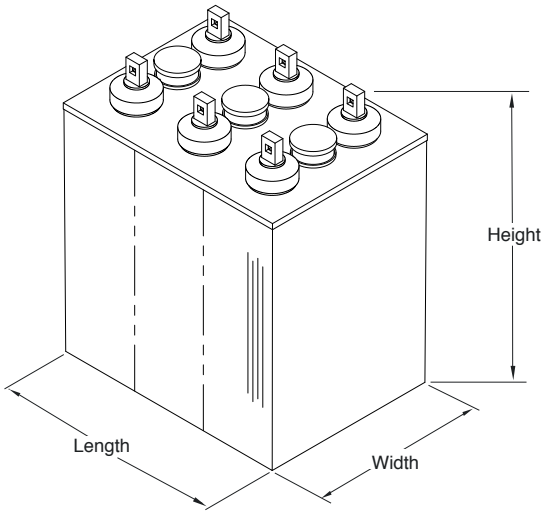

*Plate direction

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