



PowerSafe® CC-M

Switchgear, Telecommunications and Utility

Battery Range Summary



Engineered to meet the requirements of the power industry, the features inherent to the PowerSafe® CC-M battery make it one of the best in the market. The CC-M battery features calcium plates which demonstrate maximized performance in long discharge applications and reduce watering requirements. The jar design allows for more free electrolyte enabling the CC-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 CC-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 CC-M battery has long set the standard to which all other batteries are compared.

Features and Benefits

- Capacity range 50 - 200Ah
- Lead-calcium alloy
- Reduced watering requirements
- Standard Styrene Acrylonitrile (SAN) jar with flame retardant UL94 V-0 PVC cover; flame retardant jar available
- Thick positive plates maximize performance in long discharge applications
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature

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 with easy access to posts
- Excellent long discharge and complex duty cycle capability
- 20 year life expectancy in float service at 77°F (25°C)
- Lead calcium design reduces maintenance (less watering) over traditional lead antimony batteries
- All posts and connectors reside above the cell cover for easier maintenance, cell monitoring and measurements
- 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

Cell Type	Nominal Ah Capacity*	Nominal Dimensions						Weight - Volumes					
		Length**		Width		Height		Unpacked		Electrolyte only 1.215 S.G.			
		in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	liters
3CC-3M	50	7.0	178	9.0	229	14.8	375	57.0	25.9	16.1	7.3	1.6	6.1
3CC-5M	100	7.0	178	9.0	229	14.8	375	73.9	33.6	15.0	6.8	1.5	5.7
3CC-7M	150	12.2	310	9.0	229	14.8	375	113.7	51.7	34.0	15.0	3.3	12.5
3CC-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.

