



# PowerSafe® GC-M

Switchgear, UPS and Utility

## Battery Range Summary

Engineered to meet the requirements of the power industry, the industry leading features inherent to the PowerSafe® GC-M allow it to be offered with 100% initial capacity. The GC-M battery utilizes calcium plates which demonstrate maximized performance in long discharge applications, reduce watering requirements and along with thick positive grids make the GC-M series of batteries one of the most rugged on the market.

Standard features, like large double hole posts provide a stronger intercell connection, assuring maximum electrical integrity. The placement of the posts and connectors reside above the cell cover meaning maintenance routines including cell monitoring and measurements are simplified. The GC-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.



### Features and Benefits

- Capacity range 875 - 3550Ah
- Lead-calcium alloy
- Electrolyte reserve reduces watering requirements
- Standard Styrene Acrylonitrile (SAN) jar with flame retardant PVC cover; flame retardant UL94 V-0 jar available
- Thick positive grids maximize performance in long discharge applications
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature

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## Construction

- 0.30" thick positive grids provide excellent long discharge rates and long life
- Negative plate configuration enhances high rate performance
- Separator – microporous rubber with "Vitrex" glass fiber retainers
- Standard Styrene Acrylonitrile (SAN) jar with flame retardant PVC cover; flame retardant UL94 V-0 jar available
- Electrolyte – dilute sulfuric acid with specific gravity of 1.215 (1.250 available upon request)
- 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 for switchgear applications
- 20 year life expectancy in float service at 77°F (25°C)
- Lead calcium design reduces maintenance (less watering) over traditional lead antimony batteries
- 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
2GC-9	875	12.4	315	15.1	384	27.0	686	375.0	170.5	136.0	61.8	13.6	51.7
2GC-11	1020	12.4	315	15.1	384	27.0	686	410.0	186.4	127.0	57.7	12.7	48.3
2GC-13	1140	12.4	315	15.1	384	27.0	686	445.0	202.3	119.0	54.1	11.9	45.2
2GC-15	1225	12.4	315	15.1	384	27.0	686	485.0	220.5	111.0	50.5	11.1	42.2
2GC-17	1540	16.6	422	15.1	384	27.0	686	585.0	265.9	163.0	74.1	16.3	61.9
2GC-19	1630	16.6	422	15.1	384	27.0	686	620.0	281.8	155.0	70.5	15.5	58.9
2GC-21	1695	16.6	422	15.1	384	27.0	686	655.0	297.7	147.0	66.8	14.7	55.9
2GC-23	1745	16.6	422	15.1	384	27.0	686	695.0	315.9	139.0	63.2	13.9	52.8
GC-25	2260	12.4	315	15.1	384	27.0	686	440.0	200.0	123.0	55.9	12.3	46.7
GC-27	2360	12.4	315	15.1	384	27.0	686	460.0	209.1	119.0	54.1	11.9	45.2
GC-29	2450	12.4	315	15.1	384	27.0	686	480.0	218.2	115.0	52.3	11.5	43.7
GC-31	2515	12.4	315	15.1	384	27.0	686	495.0	225.0	111.0	50.5	11.1	42.2
GC-33	2560	12.4	315	15.1	384	27.0	686	515.0	234.1	107.0	48.6	10.7	40.7
GC-35	3085	16.6	422	15.1	384	27.0	686	610.0	277.3	160.0	72.7	16.0	60.8
GC-37	3200	16.6	422	15.1	384	27.0	686	630.0	286.4	156.0	70.9	15.6	59.3
GC-39	3300	16.6	422	15.1	384	27.0	686	650.0	295.5	152.0	69.1	15.2	57.8
GC-41	3385	16.6	422	15.1	384	27.0	686	665.0	302.3	148.0	67.3	14.8	56.2
GC-43	3470	16.6	422	15.1	384	27.0	686	685.0	311.4	144.0	65.5	14.4	54.7
GC-45	3550	16.6	422	15.1	384	27.0	686	705.0	320.5	140.0	63.6	14.0	53.2

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

\*\* 0.25" must be added between cells for spacing purposes when calculating total battery length.

