PowerSafe® CC-M

Switchgear, Telecommunications and Utility

Battery Performance Specifications

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Publication No: US-CCM-PS-001 - July 2014

PowerSafe® CC-M

Features and Benefits

- Capacity range 50 - 200Ah
- Lead-calcium alloy
- 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
- 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
- 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)

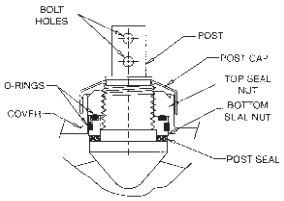
Standards

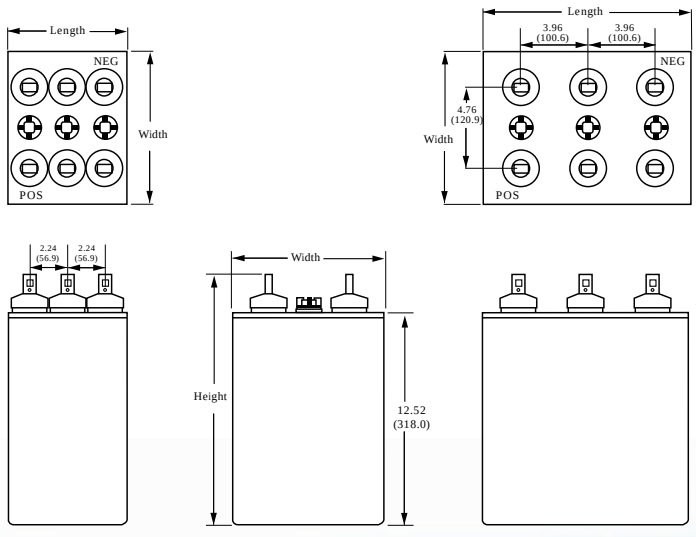
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

		Nominal Dimensions						Weight - Volumes						
		Length**		Width		Height		Unpacked		Electrolyte only/1.215 SG				Short Circuit Current
Cell Type*	Nominal Ah Capacity[1]	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	L	Amp
3CC-3M	50	7.0	178	9.0	229	14.8	375	57.0	25.9	16.0	7.3	1.6	6.1	536
3CC-5M	100	7.0	178	9.0	229	14.8	375	74.0	33.6	15.0	6.8	1.5	5.7	1055
3CC-7M	150	12.2	310	9.0	229	14.8	375	114.0	51.7	33.0	15.0	3.3	12.5	1557
3CC-9M	200	12.2	310	9.0	229	14.8	375	132.0	59.9	33.0	15.0	3.2	12.1	2044

[1]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.*





3CC-M 3, 5 CC-M 07, 09

Rint and Isc

	*Resistance	Isc
Cell Type	Milliohns	Amps
3CC-3M	3.730	540
3CC-5M	1.895	1060
3CC-7M	1.285	1560
3CC-9M	0.980	2040

** Resistance values are for reference only not intended to represent an ohmic value or base line measurement*

Constant Current

1.215 Specific Gravity

Discharge Rates in Amperes per Cell to 1.75Vpc at 77°F (25°C)

		Minutes			Hours								
Cell Type	Nominal Ah Capacity[1]	1	15	30	1	1.5	2	3	4	5	8	12	24
3CC-3M	50	75.0	48.0	37.8	27.0	21.0	17.3	12.9	10.4	8.8	6.3	4.4	2.5
3CC-5M	100	148.0	96.0	75.6	54.0	42.0	34.6	25.7	20.7	17.6	12.5	9.1	5.0
3CC-7M	150	222.0	144.0	113.0	81.0	63.0	51.9	38.6	31.0	26.4	18.8	13.6	7.5
3CC-9M	200	296.0	192.0	151.0	108.0	84.0	69.2	51.4	41.4	35.2	25.0	18.1	10.0

Discharge Rates in Amperes per Cell to 1.81Vpc at 77°F (25°C)

		Minutes			Hours								
Cell Type	Nominal Ah Capacity[1]	1	15	30	1	1.5	2	3	4	5	8	12	24
3CC-3M	50	59.0	39.0	31.5	23.3	18.5	15.4	11.8	9.6	8.2	5.9	4.3	2.5
3CC-5M	100	116.0	78.0	63.0	46.5	37.0	30.9	23.5	19.2	16.4	11.8	8.6	5.0
3CC-7M	150	174.0	117.0	94.5	69.8	55.5	46.3	35.3	28.8	24.6	17.7	13.1	7.5
3CC-9M	200	232.0	156.0	126.0	93.0	74.0	61.8	47.0	38.4	32.8	23.6	17.5	10.0

[1]*Nominal Ah Capacity based on an 8 hour discharge*

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