



# STRYTEN ENERGY

## E-SERIES

# Flooded MCX >>>

Flooded MCX batteries are designed for general purpose applications and combine the features of Long Duration and High Rate batteries. They deliver excellent one minute rates and provide high duration performance. MCX batteries are an excellent choice for utility switchgear and control applications that have complex duty cycles. A typical use would feature high inrush currents at the start of a discharge followed by lower steady-state rates. MCX batteries provide efficiency and reliability for a wide variety of applications. Stryten Energy also offers a full line of battery racks & spill containment systems to complement the Flooded battery.



**THE ENERGY TO CHALLENGE** >>>

# FLOODED MCX – LEAD CALCIUM GENERAL PURPOSE BATTERY SPECIFICATIONS

## GENERAL PURPOSE

**Type** – MCX - Lead Calcium

**Capacities** – 175 A.H. to 608 A.H.

**8 hour rate to 1.75 V.P.C. @ 77°F (25°C)**

**20 year life expectancy**

## SPECIFICATIONS

**Jar** – Styrene-Acrylonitrile (SAN) Plastic

**Cover** – Acrylonitrile Butadiene Styrene (ABS) Plastic

**Separators** – Microporous Material

**Retainers** – Fiberglass Mat

**Posts** – Two (per cell) 1.00" (25.4mm) Square

**Post Seals** – Floating "O" Ring - Seal Nut

**Vents** – Stryten Energy "Pre-Vent" Flame Arrester

**Level Lines** – High and Low - All Jar Faces

**Electrolyte** – Height above plates - 2.50" (63.5mm)

**Electrolyte Withdrawal Tubes** – 1 Per Cell

**Sediment Space** – .95" (24.1mm)

**Specific Gravity** – 1.215 @ 77°F (25°C)

**Inter-Cell Connectors** – Lead Plated Copper

**Hardware** – Type 316 Stainless Steel



PLATE DIMENSIONS	HEIGHT	WIDTH	THICKNESS
Positive Plate	11.56 in 293.6 mm	9.19 in 233.4 mm	.325 in 8.26 mm
Negative Plate	11.56 in 293.6 mm	9.19 in 233.4 mm	.220 in 5.59 mm

CELL TYPE	AMP-HOUR CAPACITY	OVERALL DIMENSIONS			APPROXIMATE WEIGHT		ELECTROLYTE PER CELL
		LENGTH	WIDTH	HEIGHT	NET	PACKED	
2-MCX-5*	176	6.25 in 159 mm	11.13 in 283 mm	18.25 in 464 mm	105 lbs 48 kg	111 lbs 50 kg	1.3 gal 4.9 liter
2-MCX-7*	256	6.25 in 159 mm	↓	↓	125 lbs 57 kg	131 lbs 59 kg	1.2 gal 4.5 liter
MCX-9	344	4.13 in 105 mm			80 lbs 36 kg	84 lbs 38 kg	1.6 gal 6.0 liter
MCX-11	432	5.13 in 130 mm			97 lbs 44 kg	102 lbs 46 kg	1.9 gal 7.2 liter
MCX-13	520	6.50 in 165 mm			118 lbs 54 kg	124 lbs 56 kg	3.0 gal 11.4 liter
MCX-15	608	6.50 in 165 mm			129 lbs 59 kg	135 lbs 61 kg	2.7 gal 10.2 liter

\*2 Cells per unit  
\*\*8 hour rate to 1.75 VPC @ 77°F (25°C)

## AMP DATA @ 77°F (25°C) MCX CELLS

CELL TYPE	HOURS							MINUTES		
	8	5	4	3	2	1.5	1	30	15	1
<b>AMPERES TO 1.75 VPC</b>										
2-MCX-5	22	30	36	44	57	68	85	117	157	234
2-MCX-7	32	46	54	66	86	102	128	176	231	339
MCX-9	43	61	72	88	114	136	170	234	304	448
MCX-11	54	76	90	110	143	170	213	293	380	550
MCX-13	65	91	108	132	171	204	255	351	457	654
MCX-15	76	106	126	154	200	238	298	410	535	756
<b>AMPERES TO 1.78 VPC</b>										
2-MCX-5	21	29	35	42	54	65	80	109	148	204
2-MCX-7	32	45	52	63	81	98	120	164	217	295
MCX-9	42	60	70	84	108	130	160	218	287	389
MCX-11	53	75	87	105	135	163	200	273	355	479
MCX-13	63	90	104	126	162	196	240	327	425	569
MCX-15	74	105	122	147	189	228	280	382	494	657
<b>AMPERES TO 1.81 VPC</b>										
2-MCX-5	20	28	34	41	53	62	76	102	140	173
2-MCX-7	30	43	50	62	79	94	114	153	203	250
MCX-9	40	57	67	82	105	125	152	204	269	331
MCX-11	51	71	84	103	132	156	191	255	330	407
MCX-13	61	85	101	123	158	187	229	306	392	483
MCX-15	71	99	118	144	184	218	267	357	453	559

## AMP DATA @ 77°F (25°C) MCX CELLS

CELL TYPE	HOURS							
	8	5	4	3	2	1.5	1	0.5
AMPERES TO 1.84 VPC								
2-MCX-5	19	28	32	39	49	58	71	92
2-MCX-7	29	41	48	58	74	87	107	138
MCX-9	38	55	64	77	98	116	142	184
MCX-11	48	69	80	97	123	145	178	230
MCX-13	57	83	96	116	147	174	213	276
MCX-15	67	97	112	135	172	203	249	322
AMPERES TO 1.88 VPC								
2-MCX-5	18	25	29	35	44	51	61	76
2-MCX-7	27	38	44	53	66	77	92	114
MCX-9	36	50	58	70	88	103	122	152
MCX-11	45	63	73	88	110	129	153	190
MCX-13	54	75	87	105	132	154	183	228
MCX-15	63	88	102	123	154	180	214	266
AMPERES TO 1.90 VPC								
2-MCX-5	17	24	27	32	40	46	54	66
2-MCX-7	26	35	41	48	60	69	81	99
MCX-9	34	47	54	64	80	92	108	132
MCX-11	43	59	68	80	100	115	135	165
MCX-13	51	71	81	96	120	138	162	198
MCX-15	60	83	95	112	140	161	189	231
AMPERES TO 1.92 VPC								
2-MCX-5	16	22	24	28	36	41	48	58
2-MCX-7	24	32	37	43	54	62	72	86
MCX-9	32	43	49	57	72	82	96	115
MCX-11	40	54	61	71	90	103	120	144
MCX-13	48	65	73	85	108	123	144	173
MCX-15	56	76	85	99	126	144	168	202

## The Energy to Challenge

Stryten Energy helps solve the world's most pressing energy challenges with a broad range of energy storage solutions and components across the Essential Power, Motive Power, Transportation, Military and Government sectors. Headquartered in Alpharetta, Georgia, we partner with some of the world's most recognized companies to meet the growing demand for reliable and sustainable energy storage capacity. Stryten powers everything from submarines to subcompacts, microgrids, warehouses, distribution centers, cars, trains and trucks. Our stored energy technologies include advanced lead, lithium and vanadium redox flow batteries, intelligent chargers and energy performance management software that keep people on the move and supply chains running.

Learn more at [www.stryten.com](http://www.stryten.com)

