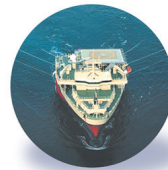




# Primary Cells



**ELECTROCHEM**  
C R E A T I N G   T O M O R R O W

# The World's Choice: Electrochem Primary Power Solutions

For decades, the world's top research institutions, industry-leading companies, and government agencies have chosen Electrochem's primary, non-rechargeable lithium cells for the best in power assurance. Why? We're the standard in critical missions—oil and gas drilling, military communications, oceanographic monitoring, and more—ensuring power in places where others fall short.




## Our cells are able to withstand the world's most harsh and extreme conditions.

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Electrochem's products lead the pack with long life and high-energy-density solutions. With a portfolio of cells in various chemistries, sizes and temperature ranges, our products are used in critical devices both big and small.

Our lithium cells are synonymous with reliability and durability, able to withstand the world's most harsh and extreme conditions. With our heritage from the lithium cell invented for implantable medical devices by our founder, Wilson Greatbatch, we understand our customers' need for security.



Our emphasis on superior supply chain management includes dedication to quality through ISO processes and procedures, and is backed by the strength of being part of the Greatbatch family. Electrochem's approach is to design solutions for long-term mission success.

With our solutions powering diverse industries and markets, we have gained the experience, intellect, and raw energy to create tomorrow's solutions today, with entry into new technologies and frontiers.

From critical application idea to strategic solution, you can take Electrochem anywhere your mission travels.

# High Rate



Developed for the most demanding applications, Electrochem's High Rate cells are used in a variety of markets, including military, pipeline inspection, oceanography, and more.

## BCX85 SERIES



High rate, spiral-wound technology uses proprietary enhanced bromine chloride technology. Delivers superior restart, pulse capability, and dependable performance over wide temperature ranges and discharge rates.

CELL SIZE	PART NUMBER	DIAMETER (mm)	LENGTH (mm)	LITHIUM WEIGHT(g)	RATED CURRENT(I <sub>RA</sub> )	MAX. CONT. CURRENT(I <sub>MAX</sub> ) <sup>a</sup>	INTERNAL FUSE(I <sub>F</sub> )	RATED CAPACITY(Ah) <sup>b</sup>
0.5g AA	3B0027	13.70	49.20	0.5	10	50	4 (link)	1.6
AA	3B0064	13.70	49.20	0.6	20	100	4 (link)	2
Sub CC	3B6600	21.00	127.00	3.65	100	1000	2	10
C	3B0070	25.60	48.40	2.2	50	500	4	7
C-LMS	3B3800	25.60	48.40	2.2	175	750	4	7
D	3B0075	33.50	59.30	4.6	175	1000	4	15
D-LMS	3B4000	33.50	59.30	4.6	175	1000	4	15
DD	3B0076	33.50	111.50	10.3	350	3000	4	30
TSD	3B6100	44.50	95.00	14.7	500	2000	3	40
SD-LMS <sup>b</sup>	3B4700 <sup>c</sup>	44.50	67.80	10.2	85	1000	3	32

## CSC93 SERIES



Powerful, spiral-wound enhanced sulfuranyl chloride technology. Delivers superior restart, high-pulse capability and dependable performance over wide temperature ranges and discharge rates.

AA	3B0024	13.70	49.20	0.6	50	150	4 (link)	2
1/2 C	3B0029	25.60	31.70	1.2	75	350	1	3.4
2/5 C	3B0665	25.60	23.30	0.9	50	250	1	2.5
C	3B0030	25.60	48.40	2.2	175	1000	4	7
D	3B0035	33.50	59.30	4.6	500	2000	4	15
DD	3B0036	33.50	111.40	10.3	1000	4000	7	30
TSD	3B6200	44.50	95.00	14.7	500	2000	5	40

Self-discharge for all High Rate Cells is <3% per year at 25°C.

<sup>a</sup> Higher pulse currents are possible (limited by the internal fuse).

<sup>b</sup> Upper temperature limit on model 3B4700 BCX65 SD-LMS cell is 65°C.

<sup>c</sup> Rated Capacity measured at 140°C.

<sup>d</sup> Rated Capacity measured at 200°C.

Contact Electrochem for our complete range of cell types, capacities, temperature ranges, and cell sizes.

## PMX150 SERIES



Extended temperature sulfuryl chloride technology. Suitable for temperatures up to +150°C.

CELL SIZE	PART NUMBER	DIAMETER (mm)	LENGTH (mm)	LITHIUM WEIGHT (g)	RATED CURRENT (mA)	MAX. CONT. CURRENT (mA) <sup>1</sup>	INTERNAL FUSE (A)	RATED CAPACITY (mAh)
1/2 AA	3B5700	13.70	29.90	0.27	20	150	4 (link)	0.8
AA	3B1065	13.70	53.16	0.5	20	150	4 (link)	1.6
C	3B3700	24.76	51.87	1.9	50	500	2.5	6.2
CC	3B3000	24.76	102.62	4.2	50	500	3	13
DD	3B2800	32.90	127.50	8.3	350	2000	5	25

## PMX165 SERIES<sup>c</sup>



Extended temperature sulfuryl chloride technology up to +165°C.

C	3B5100	24.76	51.87	1.9	50	500	2	6.2
CC	3B5200	24.76	102.62	4.2	50	500	2	13

## MWD150 SERIES



Spiral-wound, advanced thionyl chloride technology suitable for dynamic, mechanically demanding applications.

DD	3B3900	32.64	127.51	8.0	500	2000	3	24
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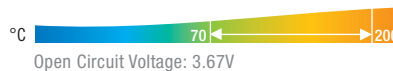
## QTC85 SERIES



Spiral-wound proprietary thionyl chloride technology suitable for high-current, high-capacity applications.

DD	3B2600	33.50	112.00	10.3	500	2000	poly	27
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## VHT200 SERIES<sup>d</sup>



Spiral-wound advanced thionyl chloride technology using specialized alloyed anodes for demanding, high-temperature applications up to +200°C.

AA	3B5400	13.70	53.16	0.45	20	150	4 (link)	1.1
C	3B4800	24.76	51.87	2.2	50	250	1.6	4.5

# Moderate Rate



Electrochem's Moderate Rate cells are designed specifically for reliable rate capabilities, even under extreme conditions. High internal surface areas are established for higher power output and continuous and pulsed current. This series is widely used in Measurement While Drilling (MWD) applications.

## 125/150MR SERIES



Ideally suited for applications with a full temperature range up to +150°C and an optimal range of +75°C to +125°C.

## 150MR SERIES



Ideally suited for high temperature up to +150°C, high-shock and -vibration applications such as downhole oil and gas industrial production environments.

CELL SIZE	PART NUMBER	SERIES	DIAMETER (mm)	LENGTH (mm)	LITHIUM WEIGHT (g)	RATED CURRENT (mA)	MAX. CURRENT (mA) <sup>a</sup>	RATED CAPACITY (Ah) <sup>b</sup>
DD	4433	33-127	31.75	125.10	8.4	500	N/A	29

Sub CC	4242	21-97	20.70	101.60	3.3	125	200	9
Sub CC	4248	21-100	20.70	101.60	3.3	125	200	10
C	4264	25-48	24.60	48.50	2	100	100	6
C	4302	26-48	25.40	48.51	2.1	100	100	6
3/2 C	4322	26-76	25.40	76.20	3	100	150	11
CC	4287	25-102	24.60	101.60	4.7	100	190	13
CC	4325	26-84LMS	25.4	84	4	100	200	11
CC	4339	26-99	25.40	99.00	4.8	100	200	14
CC	4342	26-102	25.40	101.60	4.8	100	200	15
D	4362	33-60	31.75	57.94	3.7	100	170	12
DD	4622	33-127	31.75	125.10	8.4	200	550	29
TSD	4435	47-80	48.60	80.00	11.3	200	500	40

Self-discharge for all Moderate Rate Cells is <2% per year at 25°C.

<sup>a</sup>Higher pulse currents are possible. Refer to data sheet for complete product details.

<sup>b</sup>Reinforced "non-bulge" cell-spacer may be added to equal next standard length.

<sup>c</sup>Rated Capacity measured at 100°C.

<sup>d</sup>Rated Capacity measured at 120°C.

Contact Electrochem for our complete range of cell types, capacities, temperature ranges, and cell sizes.



## 165MR SERIES



Extends the upper temperature limit to +165°C as required in advanced deep oil well exploration.

CELL SIZE	PART NUMBER	SERIES	DIAMETER (mm)	LENGTH (mm)	LITHIUM WEIGHT (g)	RATED CURRENT (mA)	MAX. CURRENT (mA) <sup>a</sup>	RATED CAPACITY (Ah) <sup>d</sup>
Sub CC	4249	21-100	20.70	101.60	3.3	125	200	9
CC	4285	25-102	24.60	101.60	4.7	100	225	14
CC	4330	26-97 <sup>b</sup>	25.40	101.60	4.5	100	200	14
CC	4338	26-102	25.40	101.60	4.95	100	200	14
D	4363	33-60	31.75	57.94	3.5	100	200	11
DD	4408	33-120 <sup>b</sup>	31.75	125.10	7.5	200	500	27

## 180MR SERIES<sup>c</sup>



High-temperature operation up to +180°C for extremely harsh environments where high shock and vibration performance is required.

Sub CC	4243	21-97	20.70	101.60	3.75	100	200	9
C	4266	25-48	24.60	48.50	2	100	100	5
3/2 C	4323	26-71 <sup>b</sup>	25.40	76.20	3.25	100	200	9
CC	4286	25-97 <sup>b</sup>	24.60	101.60	4.8	100	200	10
CC	4288	25-102	24.60	101.60	4.7	100	170	11
CC	4343	26-97 <sup>b</sup>	25.40	101.60	5	100	200	11
DD	4409	33-120 <sup>b</sup>	31.75	125.10	7.7	225	320	24

## 200MR SERIES<sup>d</sup>



Utilizes proprietary anode alloy technology to extend the upper temperature limit to +200°C.

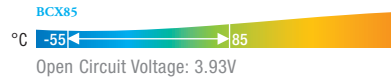
Sub C	4245	21-97	20.10	101.60	4.2	68	100	6.2
C	4267	25-48	24.60	48.5	2	50	75	4.5
CC	4283	25-97 <sup>b</sup>	20.60	101.60	4.2	68	100	6.2
CC	4346	26-97 <sup>b</sup>	25.40	101.60	5.6	68	100	10
CC	4289	25-102	24.60	101.60	4.7	68	100	9
DD	4410	33-127	31.75	125.10	7.2	200	300	20

# Low Rate



In Low Rate applications, our performance is far beyond that of Alkaline, making Electrochem a critical application standard.

## PC SERIES



High capacity with excellent performance across a wide temperature range in a PC form factor.



CELL SIZE	PART NUMBER	SERIES	DIAMETER (mm)	LENGTH (mm)	LITHIUM WEIGHT (g)	RATED CURRENT (mA)	MAX. CURRENT (mA) <sup>a</sup>	RATED CAPACITY (Ah) <sup>b</sup>
PC	3B6050	BCX85	25.40	7.60	0.4	1	10	1.0
PC	3B6045	CSC93	25.40	7.60	0.4	1	10	1.0
PC	3B6880	QTC85	25.40	7.60	0.4	0.1	1	1.0

## QTC85 SERIES



Low cost, reliable thionyl chloride for low rate applications.

1/2 AA	3B0960	QTC85	14.50	24.60	0.2	0.04	4	0.75
2/3 A	3B0950	QTC85	17.00	36.10	0.4	0.8	8	1.5
AA	3B0940	QTC85	14.50	50.54	0.5	0.1	10	1.9

## 100LR SERIES



Low rate, bobbin-style design uses proprietary thionyl chloride technology.

Sub AAA	4006	7-10	7.00	8.40	0.02	0.5	0.5	0.06
Sub AAA	4019	10-12	9.50	12.00	0.1	0.5	5	0.14
Sub AAA	4021	10-18	9.50	18.01	0.1	1	8	0.35
Sub AAA	4030	10-25	9.50	25.40	0.2	1	10	0.5
Sub AAA	4040	10-35	9.50	34.81	0.3	1.5	14	0.7
DD	4420	33-127	31.75	125.10	7.6	100	220	24

Self-discharge for all Low Rate Cells is <2%–3% per year at 25°C.

<sup>a</sup>Higher pulse currents are possible. Refer to data sheet for complete product details.

<sup>b</sup>Rated Capacity measured at 120°C.

<sup>c</sup>Rated Capacity measured at 200°C.

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## 150LR SERIES



Open Circuit Voltage: 3.67V

Low rate, bobbin-style design for high temperature applications up to +150°C.

CELL SIZE	PART NUMBER	SERIES	DIAMETER (mm)	LENGTH (mm)	LITHIUM WEIGHT(g)	RATED CURRENT(mA)	MAX. CURRENT(mA)	RATED CAPACITY(Ah)
Sub AAA	4037	10-25	9.50	25.40	0.14	2	10	0.5
1/2 AAA	4020	10-12	9.50	12	0.06	0.5	3	0.13
1/2 AA	4161	14-24	13.46	24.00	0.3	4	10	0.8
AA	4204	14-50R	13.46	48.30	0.5	10	20	1.6
C	4301	26-48	25.40	48.50	1.8	39	60	5.2
3/2 C	4321	26-76	25.40	76.20	2.7	68	90	9.0
CC	4282	25-102	24.60	101.60	3.7	68	125	12.0
CC	4341	26-102	25.40	101.60	2.7	68	90	15.0

## 165LR SERIES



Open Circuit Voltage: 3.67V

Low rate, bobbin-style design for extreme high temperature applications up to +165°C.

AA	4205	14-50	13.46	48.3	0.5	20	10	1.4
3/2 C	4320	26-76	25.4	76.2	3	30	150	8.5

## 180LR SERIES<sup>b</sup>



Open Circuit Voltage: 3.67V

Low rate, bobbin-style design for extreme high temperature applications up to +180°C.

AA	4225	14-50R	13.46	48.30	0.5	10	15	1.4
Sub CC	4244	21-100	21	101.60	3.1	30	30	7.5
CC	4284	25-102	24.60	101.60	4	68	100	10.0

## 200LR SERIES<sup>c</sup>



Open Circuit Voltage: 3.67V

Low rate, bobbin-style design for extreme high temperature applications up to +200°C.

AA	4230	14-50	13.46	48.30	0.6	10	20	1.4
Sub CC	4247	21-100	21	101.60	2.4	30	30	6

Represented in Australasia by

**Master Instruments Pty Ltd**

Sydney - Melbourne - Brisbane - Perth

[www.master-instruments.com.au](http://www.master-instruments.com.au)

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