



## ENGINEERED POWER



### COMPANY INFORMATION

Engineered Power (EP) is located in Calgary, Alberta, Canada, the heart of rugged downhole oil and gas drilling. EP thrives upon a solid foundation of over 35 years of cell legacy knowledge and new technology development expertise in providing innovative power solutions for extreme environments. EP's rigorous testing and intensive product inspections ensure safety, quality reliability, and maximum performance. *We provide power solutions, **globally**.*

### TECHNOLOGIES USED by EP

*Proprietary Spring Mechanism* enhances electrode contact resulting in steady, predictable performance and stronger end-of-life service.

*Increased Quantities of Active Materials* delivers better overall capacity, improved rate carrying capability over comparable dual anode cells, and consistent operating voltage.

*Lower Surface Area of Electrodes* relative to wound cells yields lower short circuit rate capability and improved safety.

*Reduced Internal Mechanism Welds* create less chance of mechanical breakdown due to extreme vibration and shock.

*Personalized Cell Designs* to better meet your requirements such as enhanced service during long term storage, improved storage at higher temperatures or intermittent use environments.

*Gallium Electrolyte* available to effectively reduce passivation and improve startup performance after storage and partial discharge.

*Global Engineering Services* offer localized access to experienced battery engineers for providing expert technical support when you want it and where you want it.

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**Product Information**

Cell Size	Temperature Rating (°C)	Engineered Power Part Number	Length (mm)	Diameter (mm)	Rated Capacity (Ah)	Rated Current (mA)	Max Current (mA)
<b>Low Rate Cells -</b>		<i>Bobbin design with consistent current draw and high energy densities. Commonly used in environmental studies, animal telemetry, transceivers, memory backup.</i>					
AA	150	LIRAA-HT-2	50.8	13.4	1.8	25	50
D	150	LD-HT	58	31.7	10.0	200	400
Additional sizes available upon request.							
<b>Moderate Rate Cells -</b>		<i>Dual anode design with Gallium electrolyte increases safety, reliability, capacity, and performance. Commonly used in high temp, rugged applications such as MWD, LWD, and pressure gauge.</i>					
C	150	LMRC-HT	49.5	25	6.5	100	200
C	165	LMRC-165HT	49.5	25	5.5	100	200
C	180	LMRC-180HT	49.5	25	5.5	100	200
C	225	LMRC-225HT	49.5	25	3.0	100	200
3/2 C	150	LMR3/2C-HT	76.2	25	10.0	100	200
Sub CC	150	LMR21MM-HT	100.3	20.7	10.0	150	300
Sub CC	165	LMR21MM-165HT	100.3	20.7	9.0	150	300
Sub CC	180	LMR21MM-180HT	100.3	20.7	7.0	150	300
Sub CC	200	LMR21MM-200HT	100.3	20.7	6.5	150	300
CC	150	LMRCC-HT	97.8	25	15.0	100	200
CC	165	LMRCC-165HT	97.8	25	14.0	100	200
CC	180	LMRCC-180HT	97.8	25	10.5	150	300
D	150	LMRD-DA-HT	58	31.8	13.0	325	650
D	165	LMRD-DA-165HT	58	31.8	11.0	325	650
DD	150	LMRDD-DA-HT	127	31.8	29.0	400	800
DD	165	LMRDD-DA-165HT	127	31.8	25.0	400	800
DD	180	LMRDD-DA-180HT	127	31.8	24.0	400	800
DD	200	LMRDD-DA-200HT	127	31.8	21.0	300	600
DDD	150	LMRDDD-DA-HT	172.5	31.8	42.0	400	800
DDD	165	LMRDDD-DA-165HT	172.5	31.8	36.0	400	800
DDD	180	LMRDDD-DA-180HT	172.5	31.8	34.0	400	800
E	150	LMRE-DA-HT	84.6	47.2	40.0	400	800
E	180	LMRE-DA-180HT	84.6	47.2	33.0	400	800
<b>High Rate Cells -</b>		<i>Spiral design safely delivers consistent, high quality power to the most demanding applications. Commonly used in high power/high temp applications such as pipeline inspection, O&amp;G, military.</i>					
AAA	150	LIRAAA-HT	42	9.6	0.7	25	50
1/2 AA	150	LIR1/2AA-HT	25.4	13.4	0.7	25	50
1/2 AA	165	LIR1/2AA-180HT	25.4	13.4	0.5	25	50
AA	150	LIRAA-HT	50.8	13.4	1.6	50	100
AA	165	LIRAA-165HT	50.8	13.4	1.6	50	100
AA	180	LIRAA-180HT	50.8	13.4	1.4	50	100
AA	200	LIRAA-200HT	50.8	13.4	1.2	50	100
C	150	LIRC-HT	50.5	25	6.0	300	600
C	165	LIRC-165HT	50.5	25	5.5	300	600
CC	150	LIRCC-HT	97.9	25	11.0	100	200
CC	165	LIRCC-165HT	97.9	25	11.0	300	600
3/4 D	165	LIR3/4D-165HT	49.5	31.8	7.5	500	1000
D	150	LIRD-HT	59.7	31.8	10.0	750	1500
D	165	LIRD-165HT	59.7	31.8	10.0	750	1500
D	180	LIRD-180HT	59.7	31.8	6.5	500	1000
DD	150	LIRDD-HT	126.2	31.8	24.0	750	1500
DD	165	LIRDD-165HT	126.2	31.8	18.0	750	1500
DD	180	LIRDD-180HT	126.2	31.8	15.0	750	1500
DD HTS*	150	LIRDD-HTS	126.2	31.8	27.0	750	1500
DD HTS*	165	LIRDD-165HTS	126.2	31.8	21.0	750	1500

HTS\* - Significantly higher capacity than standard cells.