



Maximize Your Power. Minimize Risk.

Our Success & Growth

- For over 20 years, our dedication to continuous innovation has set industry benchmarks for designing and manufacturing lithium battery products specifically intended for use in the downhole oil and gas markets
- Original technology roots based on US military requirements
- History of safe, innovative and efficient cell designs
- Customized electrolytes and cell designs to meet your every need
- Flexible, responsive and experienced engineering staff to tailor products for your toughest applications
- Proven success supplying downhole power to all major oil and gas service industry companies

Our Exclusive Technologies

Lithium Thionyl Chloride

- 3.6 V liquid cathode for temperatures up to 225° C
- high voltage and capacity

Low Temperature Startup (LTS) Cells

- 3.6 V 180° C - 225° C alloy cells that operate at 25° C
- increased capacity and increased safety

NEW

High Temperature Lithium Sulfuryl Chloride

- 3.9 V liquid cathode for temperatures up to 165° C
- high voltage and energy

Lithium Sulfuryl Chloride

- 3.9 V liquid cathode for temperatures up to 100° C
- highest voltage and energy

Our Premier Products

We carry a full range of battery cell sizes, from sub 1/2AAA to E. All our products are DOT tested and are hermetically sealed for safety and integrity. Our products are among the highest quality available on the market, with a history of reliability and reduced risk.

Our People & Service

Engineered Power's global network of portable power engineers provides localized expert design, experienced service knowledge, and timely product delivery, where you want it and when you need it.

Our Proven Performance

Engineered Power's battery cells are designed by experts, to deliver peak performance in the most hostile conditions. We've been doing this successfully for over 20 years, and we are constantly driving to expand our performance.

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Cell Size	Model (EP Part Number)	Length (inch)	Diameter (inch)	Max Temperature (C)	Rated Current (mA)	Capacity (AH)
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Low Rate Cells

Bobbin design with consistent current draw and high energy densities. Commonly used in environmental studies, animal telemetry, transceivers, and memory back-up.

1/2AAA	L1/2AAA-HT	1.00	0.38	150	7	0.5
1/2AAA	L1/2AAA-165HT	1.00	0.38	165	7	0.44
1/2AAA	L1/2AAA-180HT	1.00	0.38	180	7	0.43
3/4AAA	L3/4AAA-HT	1.50	0.38	150	10	0.6
AAA	LAAA-HT	1.66	0.38	150	10	0.7
AAA	LAAA-180HT	1.66	0.38	180	25	0.7
AAA	LAAA-200HT	1.66	0.38	200	25	0.7
AA	LIRAA-HT-2	2.05	0.53	150	25	1.8
AA	LIRAA-165HT-2	2.05	0.53	165	25	1.6
AA	LIRAA-180HT-2	2.05	0.53	180	25	1.6
AA	LIRAA-225HT-2	2.05	0.53	225	25	1.2
D	LD-HT	2.30	1.25	150	200	10.0

Moderate Rate Cells

Dual anode design with Gallium electrolyte increases safety, reliability, capacity and performance. Commonly used in high temperature, rugged applications such as MWD, LWD and pressure gauge.

C	LMRC-DA-HT	1.91	0.99	150	100	6.5
C	LMRC-DA-165HT	1.91	0.99	165	100	5.5
C	LMRC-DA-180HT	1.91	0.99	180	100	5.5
C	LMRC-DA-200HT	1.91	0.99	200	100	5.5
C	LMRC-225HT	1.91	0.99	225	50	3.0
3/2C	LMR3/2C-DA-HT	3.01	0.99	150	100	10.0
21MM	LMR21MM-HT	3.85	0.81	150	150	10.0
21MM	LMR21MM-165HT	3.85	0.81	165	150	9.0
21MM	LMR21MM-180HT	3.85	0.81	180	150	7.0
21MM	LMR21MM-200HT	3.85	0.81	200	150	6.5
21MM	LMR21MM-225HT	3.85	0.81	225	50	5.0
25MM	LMR25MM-HT	3.85	0.96	150	300	14.5
25MM	LMR25MM-165HT	3.85	0.96	165	300	14.0
25MM	LMR25MM-180HT	3.85	0.96	180	250	11.5
25MM	LMR25MM-200HT	3.85	0.96	200	200	9.0
25MM	LMR25MM-225HT	3.85	0.96	225	100	7.0
CC	LMRCC-DA-HT	3.81	0.99	150	100	15.0
CC	LMRCC-DA-165HT	3.81	0.99	165	100	14.0
CC	LMRCC-DA-180HT	3.81	0.99	180	150	10.5
CC	LMRCC-DA-200HT	3.81	0.99	200	100	9.5
D	LMRD-DA-HT	2.30	1.25	150	325	13.0
D	LMRD-DA-165HT	2.30	1.25	165	325	11.0
DD	LMRDD-DA-HT	4.97	1.25	150	400	29.0
DD	LMRDD-DA-100HT	4.97	1.25	100	400	30.0
DD	LMRDD-DA-165HT	4.97	1.25	165	400	25.0
DD	LMRDD-DA-165HTS	4.97	1.25	165	400	29.0
DD	LMRDD-DA-180HT	4.97	1.25	180	400	24.0
DD	LMRDD-DA-200HT	4.97	1.25	200	300	21.0
DD	LMRDD-5.5HT	4.97	1.25	150	400	34.0
DDD	LMRDDD-DA-HT	6.82	1.25	150	400	42.0
DDD	LMRDDD-DA-165HT	6.82	1.25	165	400	36.0
DDD	LMRDDD-DA-180HT	6.82	1.25	180	400	34.0
E	LMRE-DA-HT	3.33	1.86	150	400	40.0
E	LMRE-DA-180HT	3.33	1.86	180	400	33.0



ENGINEERED POWER

Cell Size	Model (EP Part Number)	Length (inch)	Diameter (inch)	Max Temperature (C)	Rated Current (mA)	Capacity (AH)
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High Rate Cells

Spiral design safely delivers consistent, high quality power to the most demanding applications. Commonly used in high power / high temperature applications such as pipeline inspection, O&G, military.

1/2AA	LIR1/2AA-HT	1.05	0.53	150	25	0.7
1/2AA	LIR1/2AA-180HT	1.05	0.53	180	25	0.5
1/2AA	LIR1/2AA-200HT	1.05	0.53	200	25	0.5
AA	LIRAA-HT	2.05	0.53	150	50	1.6
AA	LIRAA-165HT	2.05	0.53	165	50	1.6
AA	LIRAA-180HT	2.05	0.53	180	50	1.4
AA	LIRAA-200HT	2.05	0.53	200	50	1.2
2AA	LIR2AA-HT	4.07	0.53	150	50	3.2
3AA	LIR3AA-165HT	6.02	0.57	165	100	6.2
18MM	LIR18MM-165HT	4.09	0.67	165	150	5.0
21MM	LIR21MM-165HT	3.93	0.81	165	150	9.0
C	LIRC-HT	1.99	0.99	150	300	6.0
C	LIRC-165HT	1.99	0.99	165	300	5.5
CC	LIRCC-HT	3.89	0.99	150	300	11.0
CC	LIRCC-165HT	3.89	0.99	165	300	11.0
CC	LIRCC-180HT	3.89	0.99	180	300	10.0
3/4D	LIR3/4D-165HT	1.94	1.25	165	500	7.5
D	LIRD-165ETR	2.36	1.25	165	250	10.0
D	LIRD-HT	2.36	1.25	150	750	10.0
D	LIRD-165HT	2.36	1.25	165	750	10.0
D	LIRD-180HT	2.36	1.25	180	500	6.5
DD	LIRDD-HT	5.03	1.25	150	750	24.0
DD	LIRDD-HTS	5.03	1.25	150	750	27.0
DD	LIRDD-165HT	5.03	1.25	165	750	18.0
DD	LIRDD-165HTS	5.03	1.25	165	750	21.0
DD	LIRDD-180HT	5.03	1.25	180	750	15.0
DD	LIRDD-180HTS	5.03	1.25	180	750	19.0
DD	LIRDD-ETR	5.03	1.25	150	750	29.0
DD	LIRDD-100HTX	5.03	1.25	100	750	29.0
DD	LIRDD-HTX	5.03	1.25	150	750	29.0
DD	LIRDD-ETR	5.03	1.25	150	750	29.0
DD	LIRDD-165ETR	5.03	1.25	165	750	26.0
DD	LIRDD-REV	5.03	1.25	150	750	29.0
E	LIRE-HT-LM	3.15	1.88	150	500	40.0
PIG D	LIRD-5-1	2.43	1.30	85	250	15.0
PIG DD	LIRDD-5-1	4.41	1.30	95	500	31.0

3.9V Sulfuryl Chloride High Rate Cells

The 3.9 Volt sulfuryl chloride chemistry is our most powerful. Commonly used in high power/moderate temperature applications such as pipeline inspection.

1/2C	LIR1/2C-5-1-SC	1.14	0.99	100	175	3.1
C	LXRC-5-1-SC	1.84	0.99	100	300	6.7
D	LIR173-LM-SC	2.49	1.73	65	400	32.0
D	LXRD-5-1-SC	2.36	1.30	100	350	16.0
D	LIRD-5-1-SC	2.36	1.30	100	500	15.0
DD	LXRDD-5-1-SC	4.41	1.30	100	1000	32.0
DD	LIRDD-5-1-SC	4.41	1.30	100	1000	30.0



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Cell Size	Model (EP Part Number)	Length (inch)	Diameter (inch)	Max Temperature (C)	Rated Current (mA)	Capacity (AH)
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High Temperature 3.9V Sulfuryl Chloride High Rate Cells **NEW Product Line.** Features powerful 3.9 Volt sulfuryl chloride chemistry coupled with a robust design to handle extreme high temperatures. Ideally suited for high temperature applications such as pipeline inspection, O&G, and military.

NEW

AA	LIRAA-HT-SC	2.05	0.53	150	50	1.7
C	LXRC-HT-SC	2.05	1.00	150	50	6.8
C	LXRC-165HT-SC	2.05	1.00	165	50	6.8
CC	LXRCC-HT-SC	4.05	1.00	150	100	15.3
CC	LXRCC-165HT-SC	4.05	1.00	165	100	15.3
DD	LIRDD-HTX-SC	5.03	1.25	150	350	25.0

LTS (Low Temperature Start up) Cells A patented EP technology that creates a more active anode surface on cells that use alloy anodes (180 C rated and above). This more active surface allows for short term operation of the cells at surface temperatures, enabling tool function testing and calibration for high temperature deployments.

AA	LIRAA-180LTS	2.05	0.53	180	50	1.4
C	LMRC-180LTS	1.91	0.99	180	100	5.5
21MM	LMR21MM-200LTS	3.85	0.81	200	150	6.5
DD	LMRDD-DA-180LTS	4.97	1.25	180	400	24.0
DD	LIRDD-180LTS	5.03	1.25	180	750	15.2

LXR Cells An intermediate rate cell featuring superior power capability than standard LMR designs with improved durability under heavy shock, vibration and rotational environmental conditions.

3.3C	LXR3.3-165HT-LM	3.33	0.99	165	100	12.0
CC	LXRCC-LT	3.81	0.99	105	140	14.5
D	LXRD-HT	2.36	1.25	150	500	13.0
DD	LXR120DD-HT	4.93	1.21	150	425	26.0
DD	LXRDD-100HT	4.97	1.25	100	500	34.0
DD	LXRDD-HT	4.97	1.25	150	500	32.5
DD	LXRDD-165HT	4.97	1.25	165	500	29.0
E	LXRE-HT-LM	3.25	1.88	150	500	38.0

Testing is Our Cornerstone for Optimum Quality

Engineered Power maintains state-of-the-art cell testing facilities and procedures. Our equipment allows us to fully test the capacity of all cells we manufacture. Detailed records track the historical averages of capacity for every cell, and comparisons are done to ensure that the capacity is maximized. Uncompromising quality is our mandate.

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