

Lithium Sulfur Dioxide (LiSO₂)

EaglePicher has design and manufacturing capabilities for both LiSO₂ and MnO₂ cells and batteries. These systems are essentially interchangeable in most applications. They have 3V nominal voltage, are available in similar sizes and share many design and manufacturing features such as hermetic construction and glass-to-metal feedthrough. Commercial applications include:

- Emergency Locator Beacons (ELT, EPIRB)
- Emergency Lighting
- Back-up Power Supply
- Low temperature Applications.

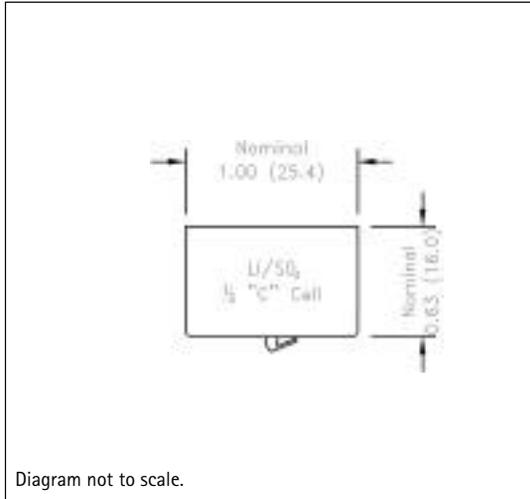


Click on Part Number to view data sheet.

Cylindrical LiSO ₂ Cells					
Voltage (V)	Capacity (Ah)	Designation	Dimensions (mm)	Weight (g)	Part Number
3.0	1.2	1/3C	25.4 dia x 16.0	18	LS-2616*
3.0	3.8	C	25.4 dia x 50.8	45	LS-2650*
3.0	4.8	5/4C	25.4 dia x 58.0	50	LS-2660*
3.0	7.2	D	33.0 dia x 55.0	78	LS-3355*
3.0	8.2	Squat D	38.1 dia x 46.5	85	LS-3846*
3.0	17.5	DD	33.3 dia x 111.8	165	LS-33112*

* These products are not part of the standard Keeper[®] line.

LS-2616 – LITHIUM SULFUR DIOXIDE “1/3 C” CELL



CELL SPECIFICATIONS

OPEN CIRCUIT VOLTAGE	3.0 Volts
NOMINAL VOLTAGE	2.7 Volts *
CAPACITY	1.0 Ah *
WEIGHT	18 grams
SPECIFIC ENERGY	170 Wh/kg at C/5 and 25°C
ENERGY DENSITY	350 Wh/l at C/5 and 25°C

*at 25°C, 0.22 amp load to 2.0 volts

See over for discharge graphs.

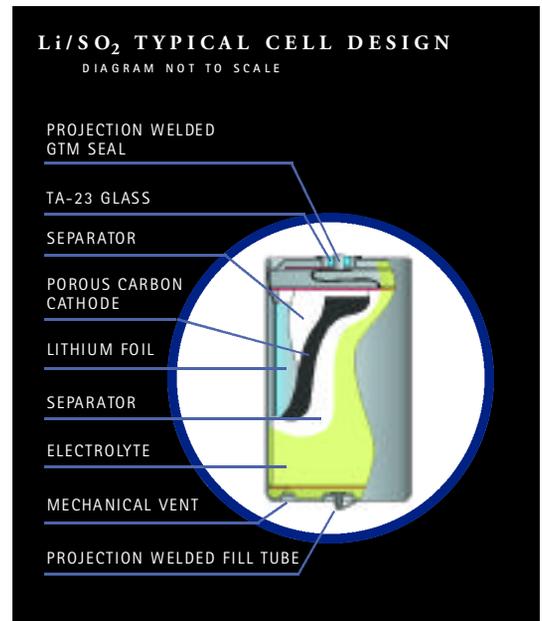
FEATURES

- Fully welded hermetically sealed construction for leak-free service
- 350±50 psi mechanical vent (US Patent 4,610,370) for safe operation
- TA-23 Glass To Metal seal for 10-year shelf life with low voltage delay
- Electrolyte optimized for high temperature storage and low temperature performance
- Porous carbon cathode designed for high rate and high capacity
- Balanced cell chemistry for safe operation
- Spiral wound electrode design
- Operating range -40°C to +55°C
- Flat discharge curve
- Positive and/or negative tabs
- Custom finishing

APPLICATIONS

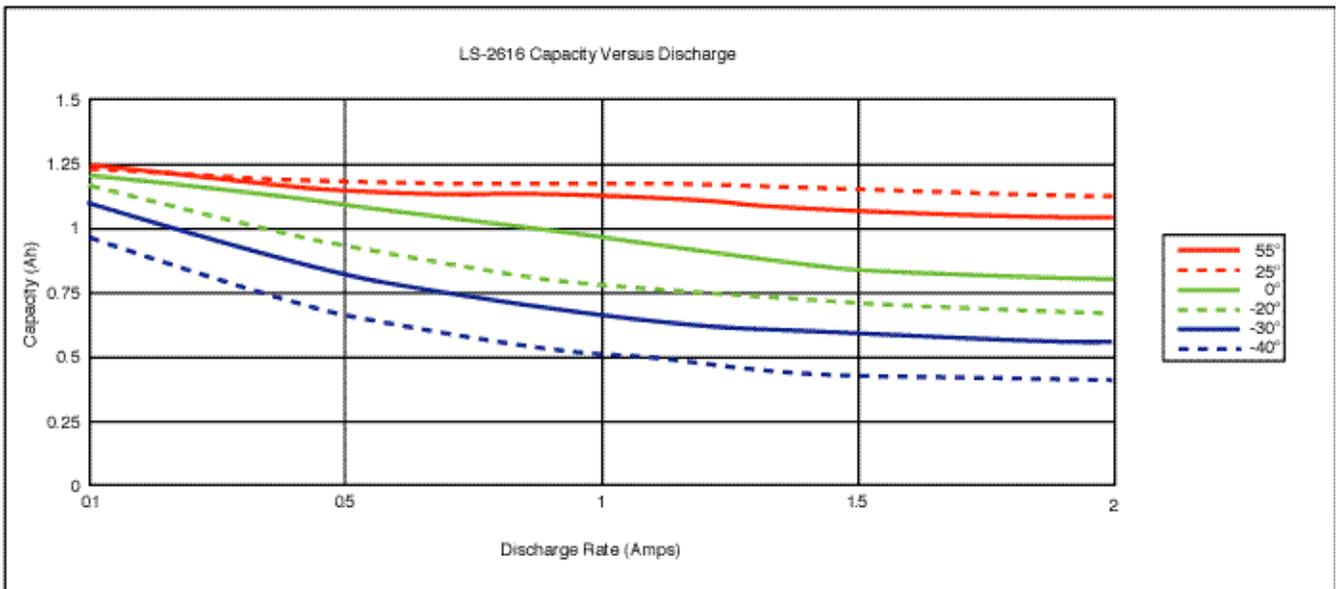
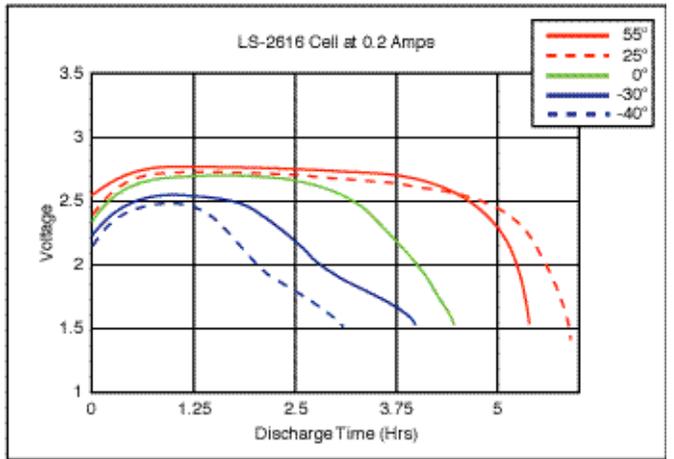
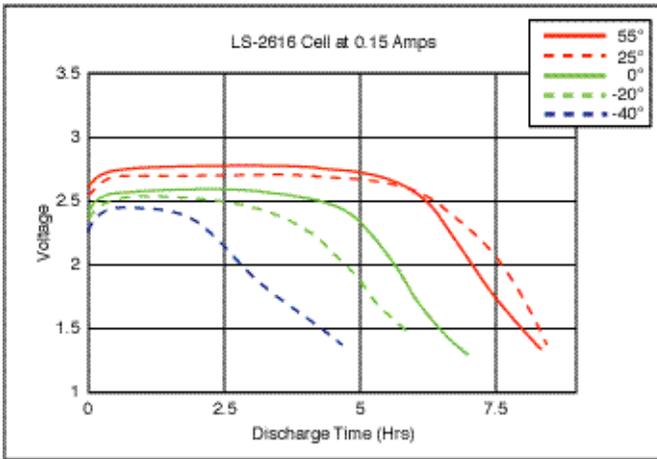
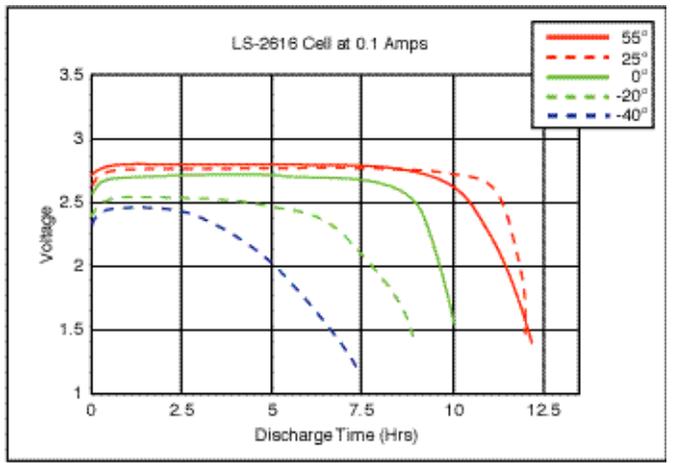
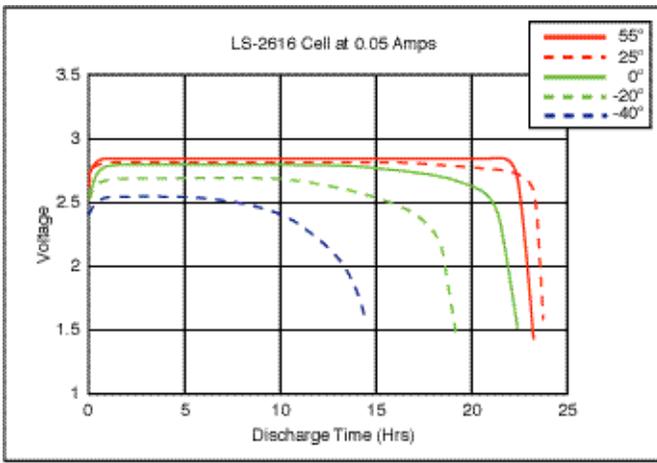
This versatile cell and other sizes like it are ideal for applications such as search and rescue equipment, emergency location or survival gear, communications equipment, memory back-up, telemetry, measurement devices, standby medical equipment, buoys, beacons and other remote sensing devices.

Li/SO₂ is a highly reliable high rate cell that can run at continuous or pulsed discharge to temperatures as low as -40°C. This cell is the choice of military markets worldwide.

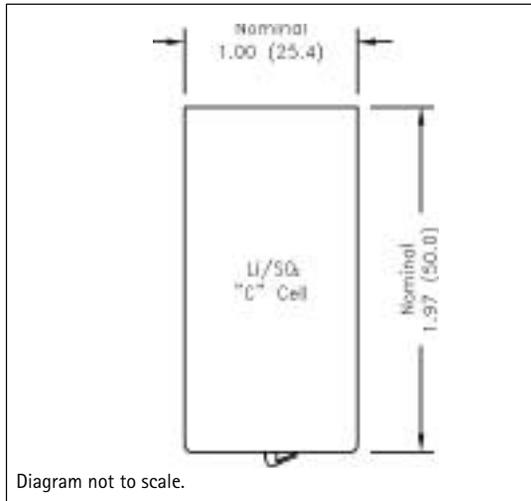


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LS-2650 – LITHIUM SULFUR DIOXIDE “C” CELL



CELL SPECIFICATIONS

OPEN CIRCUIT VOLTAGE	3.0 Volts
NOMINAL VOLTAGE	2.8 Volts *
CAPACITY	3.9 Ah *
WEIGHT	45 grams
SPECIFIC ENERGY	225 Wh/kg at C/5 and 25°C
ENERGY DENSITY	400 Wh/l at C/5 and 25°C

*at 25°C, 1.5 amp load to 2.0 volts

See over for discharge graphs.

FEATURES

- Fully welded hermetically sealed construction for leak-free service
- 350±50 psi mechanical vent (US Patent 4,610,370) for safe operation
- TA-23 Glass To Metal seal for 10-year shelf life with low voltage delay
- Electrolyte optimized for high temperature storage and low temperature performance
- Porous carbon cathode designed for high rate and high capacity
- Balanced cell chemistry for safe operation
- Spiral wound electrode design
- Operating range -40°C to +55°C
- Flat discharge curve
- Positive and/or negative tabs
- Custom finishing

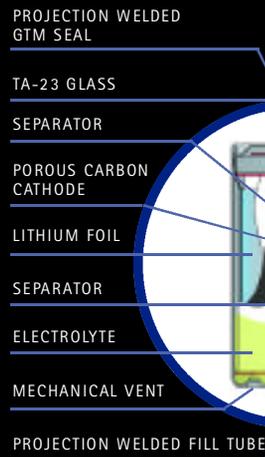
APPLICATIONS

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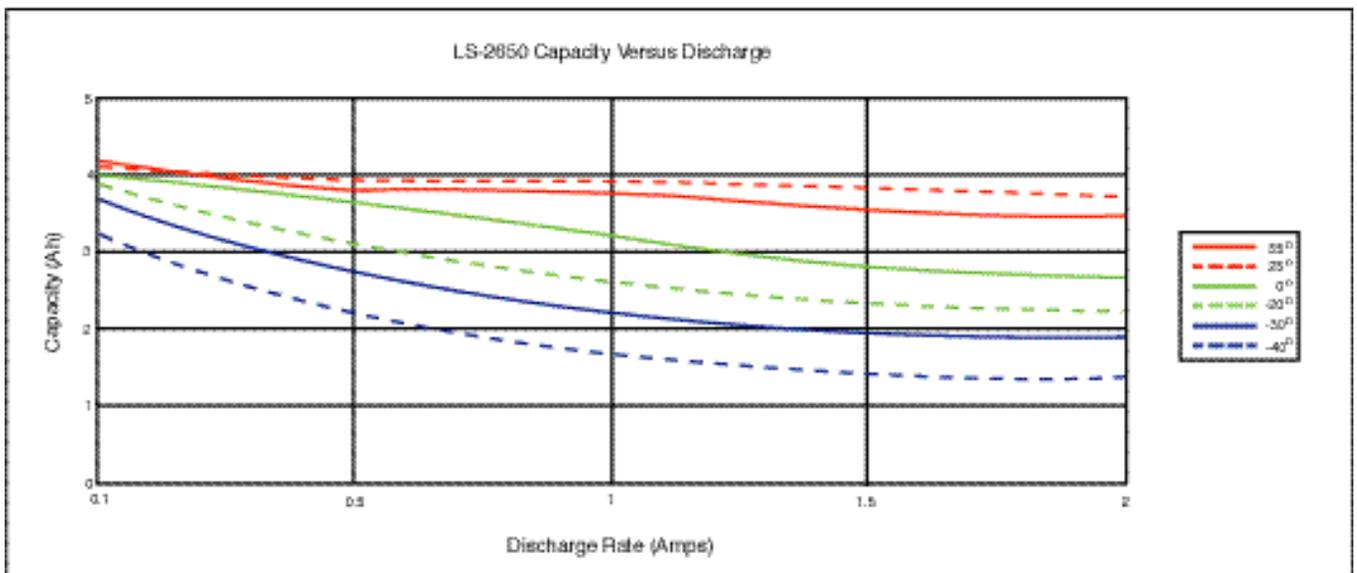
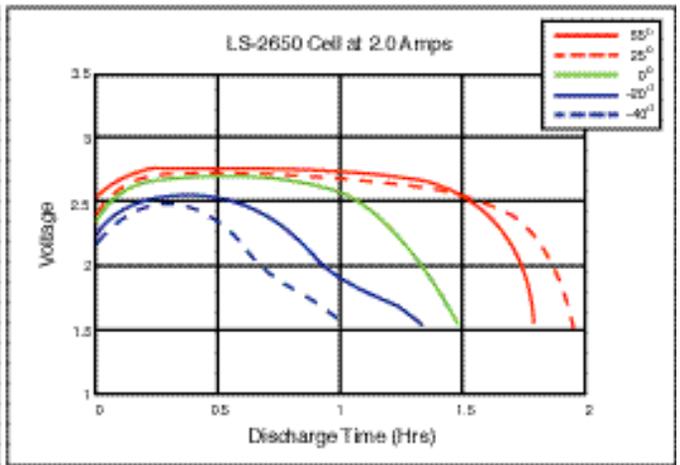
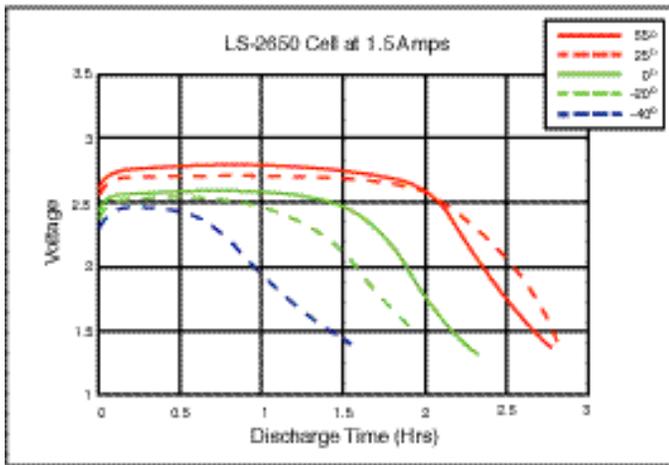
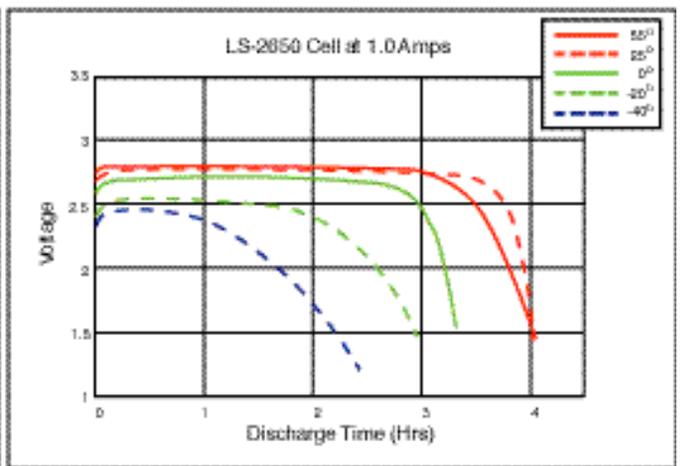
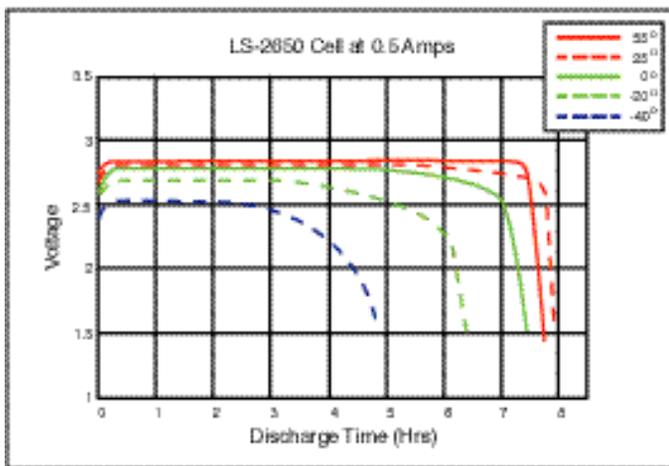
Li/SO₂ TYPICAL CELL DESIGN

DIAGRAM NOT TO SCALE

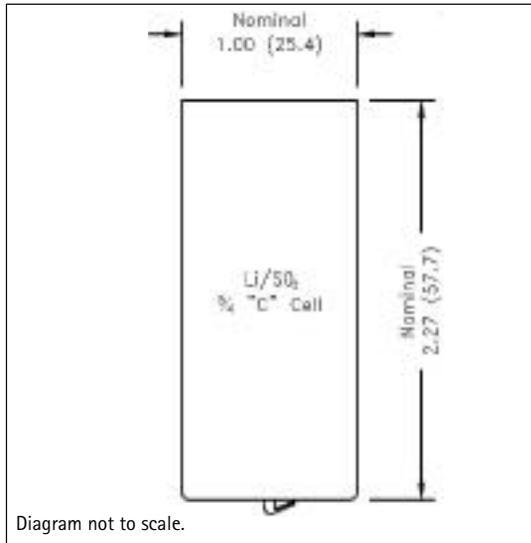


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LS-2660 – LITHIUM SULFUR DIOXIDE “5/4 C” CELL



CELL SPECIFICATIONS

OPEN CIRCUIT VOLTAGE	3.0 Volts
NOMINAL VOLTAGE	2.8 Volts *
CAPACITY	4.8 Ah *
WEIGHT	50 grams
SPECIFIC ENERGY	240 Wh/kg at C/5 and 25°C
ENERGY DENSITY	425 Wh/l at C/5 and 25°C

*at 25°C, 0.95 amp load to 2.0 volts

See over for discharge graphs.

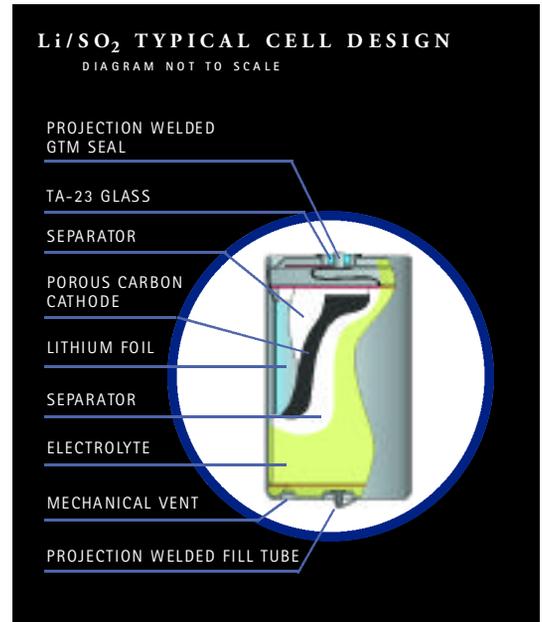
FEATURES

- Fully welded hermetically sealed construction for leak-free service
- 350±50 psi mechanical vent (US Patent 4,610,370) for safe operation
- TA-23 Glass To Metal seal for 10-year shelf life with low voltage delay
- Electrolyte optimized for high temperature storage and low temperature performance
- Porous carbon cathode designed for high rate and high capacity
- Balanced cell chemistry for safe operation
- Spiral wound electrode design
- Operating range -40°C to +55°C
- Flat discharge curve
- Positive and/or negative tabs
- Custom finishing

APPLICATIONS

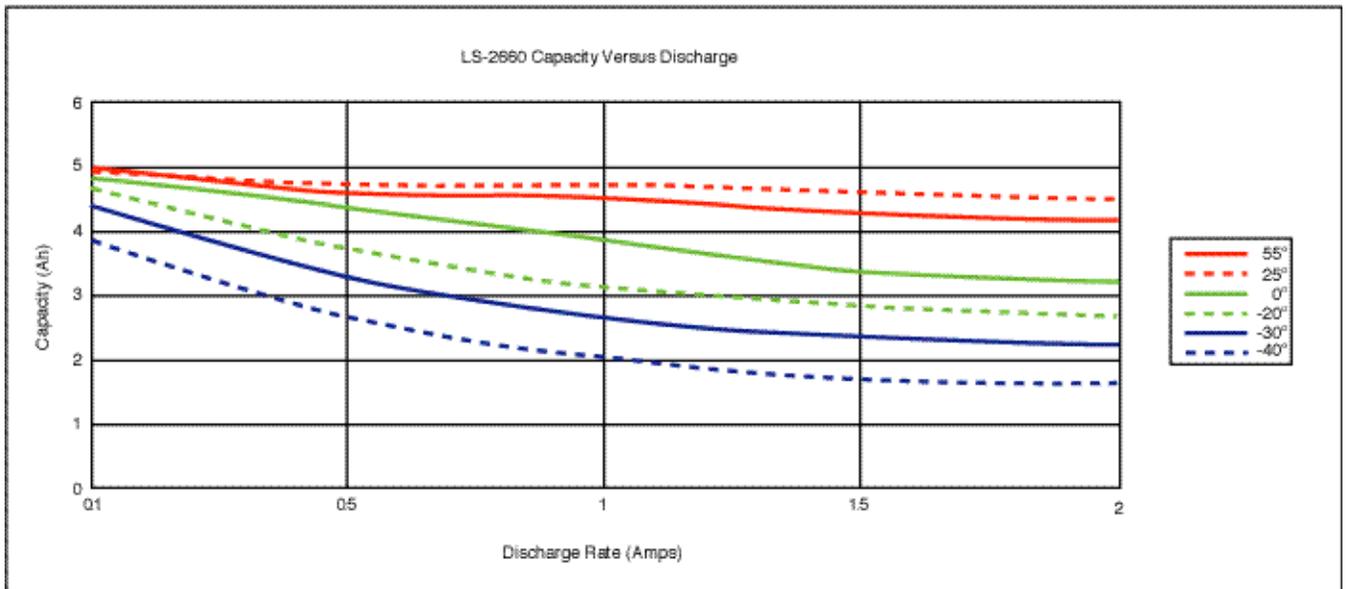
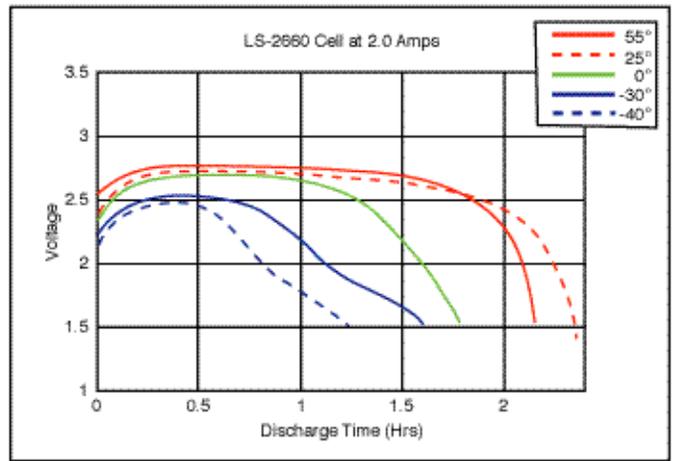
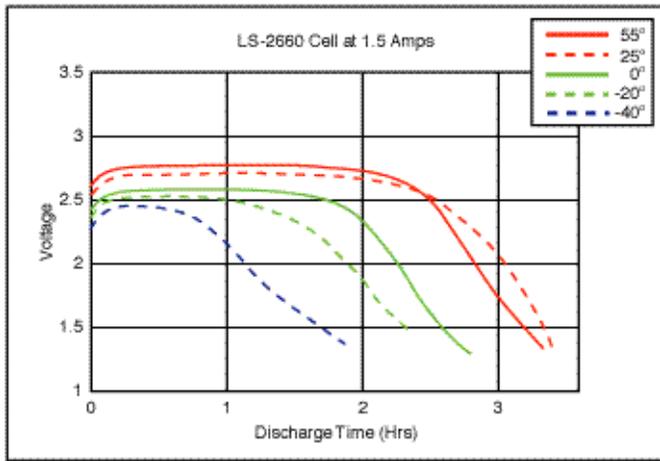
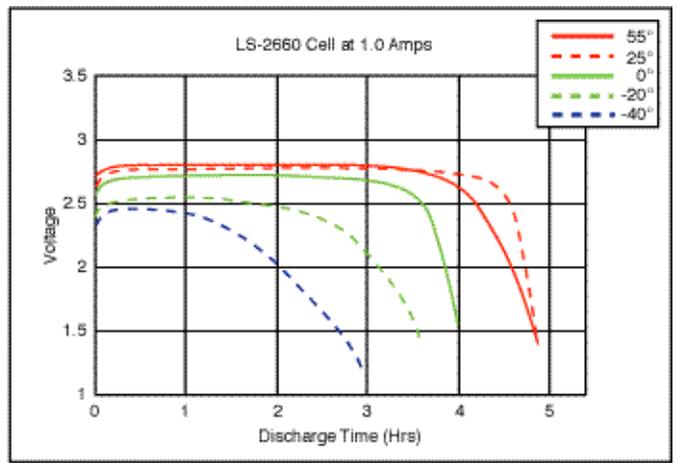
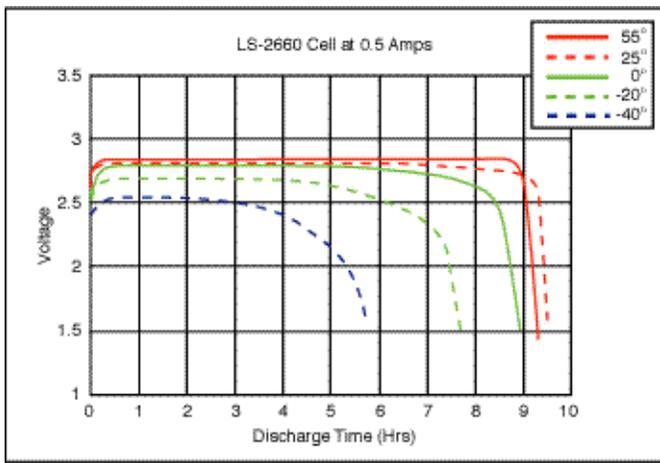
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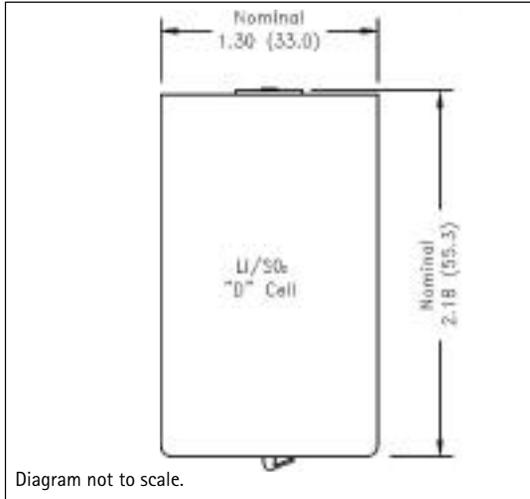


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LS-3355 – LITHIUM SULFUR DIOXIDE “D” CELL



FEATURES

- Fully welded hermetically sealed construction for leak-free service
- 350±50 psi mechanical vent (US Patent 4,610,370) for safe operation
- TA-23 Glass To Metal seal for 10-year shelf life with low voltage delay
- Electrolyte optimized for high temperature storage and low temperature performance
- Porous carbon cathode designed for high rate and high capacity
- Balanced cell chemistry for safe operation
- Spiral wound electrode design
- Operating range -40°C to +55°C
- Flat discharge curve
- Positive and/or negative tabs
- Custom finishing

APPLICATIONS

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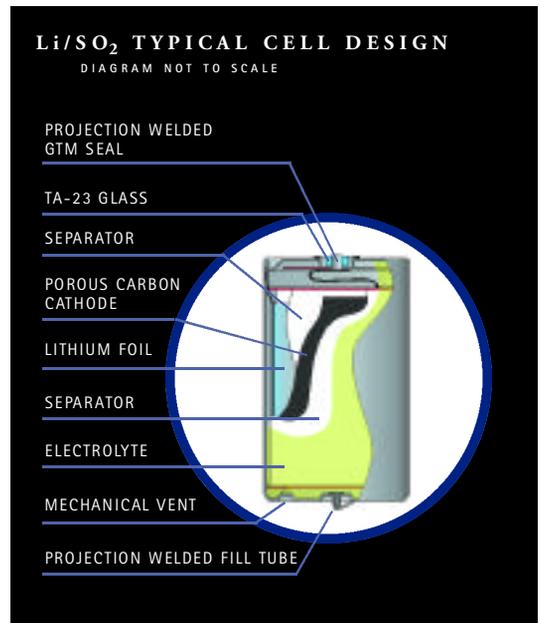
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CELL SPECIFICATIONS

OPEN CIRCUIT VOLTAGE	3.0 Volts
NOMINAL VOLTAGE	2.8 Volts *
CAPACITY	7.2 Ah *
WEIGHT	78 grams
SPECIFIC ENERGY	260 Wh/kg at C/5 and 25°C
ENERGY DENSITY	400 Wh/l at C/5 and 25°C

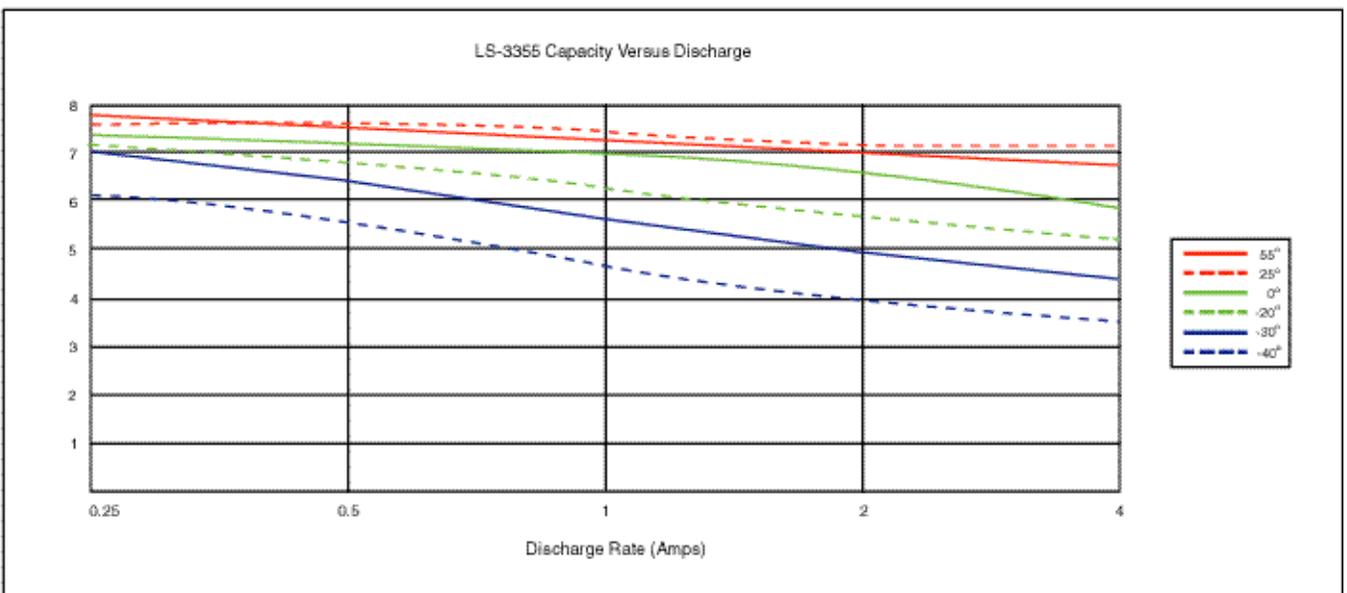
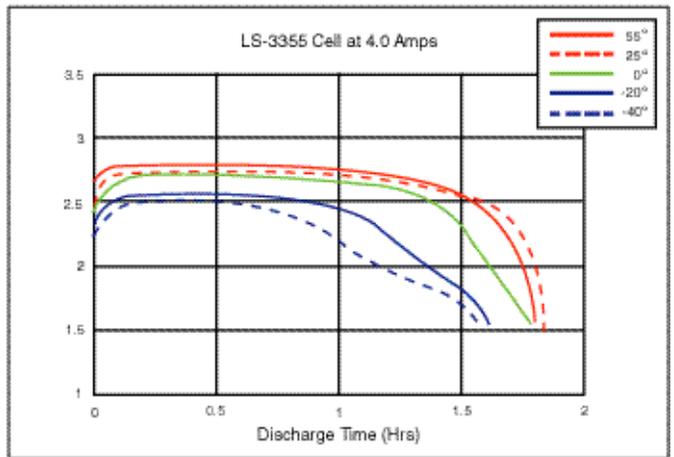
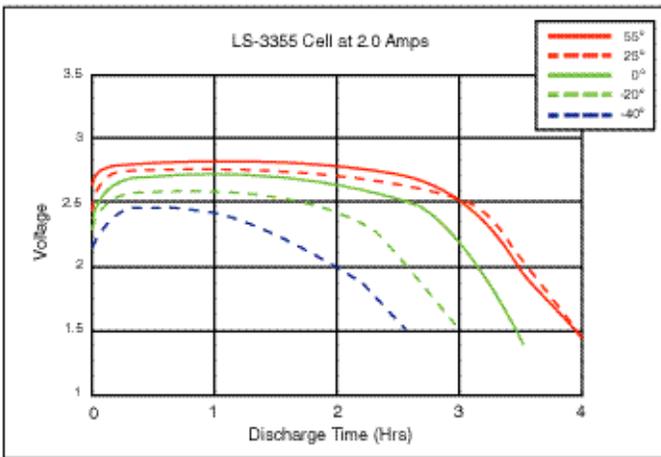
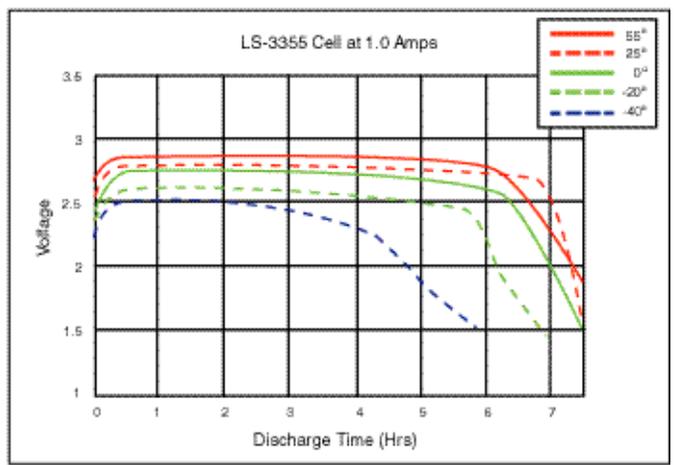
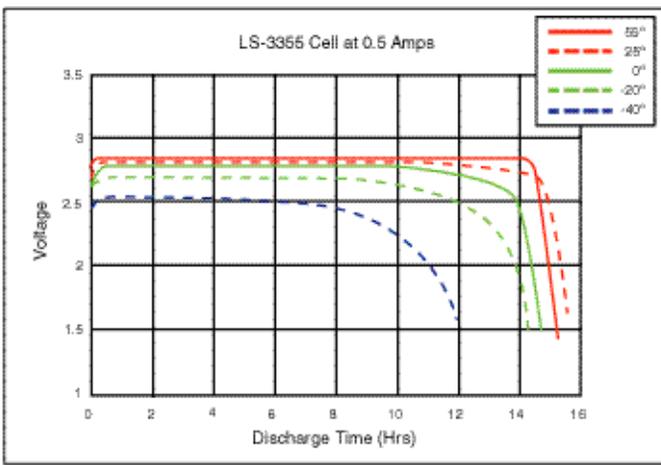
*at 25°C, 1.5 amp load to 2.0 volts

See over for discharge graphs.



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LS-3846 – LITHIUM SULFUR DIOXIDE “SQUAT D” CELL

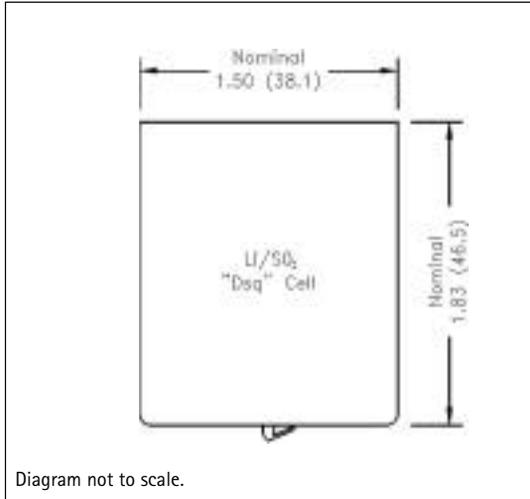


Diagram not to scale.

FEATURES

- Fully welded hermetically sealed construction for leak-free service
- 350±50 psi mechanical vent (US Patent 4,610,370) for safe operation
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- Balanced cell chemistry for safe operation
- Spiral wound electrode design
- Operating range -40°C to +55°C
- Flat discharge curve
- Positive and/or negative tabs
- Custom finishing

APPLICATIONS

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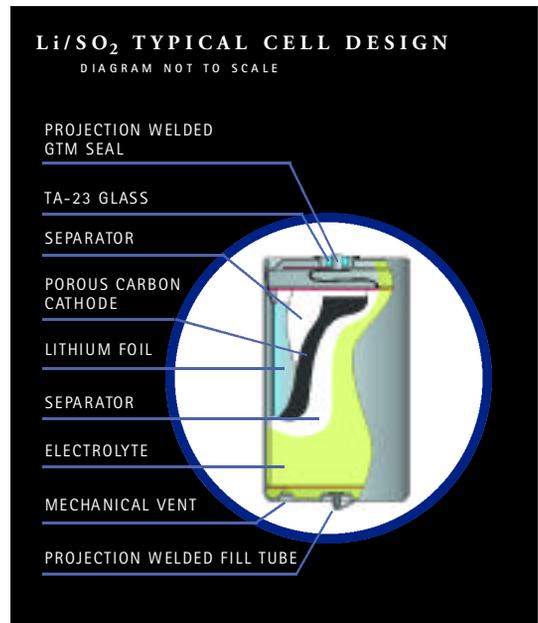
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CELL SPECIFICATIONS

OPEN CIRCUIT VOLTAGE	3.0 Volts
NOMINAL VOLTAGE	2.8 Volts *
CAPACITY	8.2 Ah *
WEIGHT	85 grams
SPECIFIC ENERGY	270 Wh/kg at C/5 and 25°C
ENERGY DENSITY	430 Wh/l at C/5 and 25°C

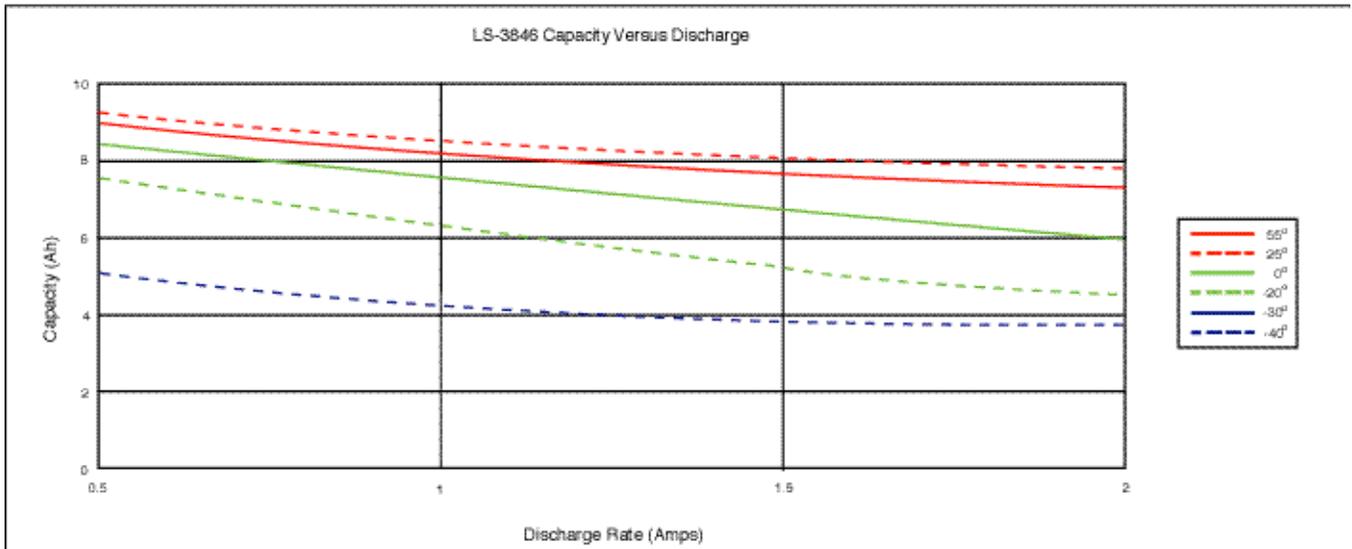
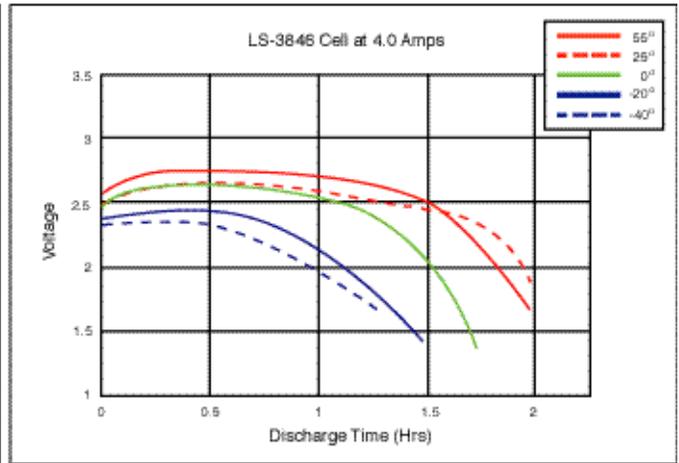
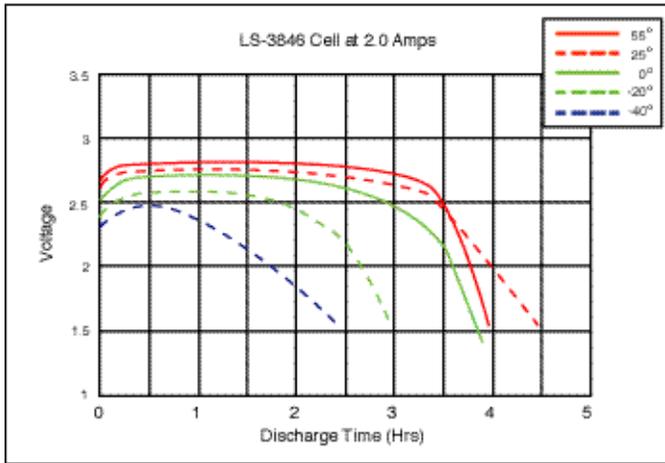
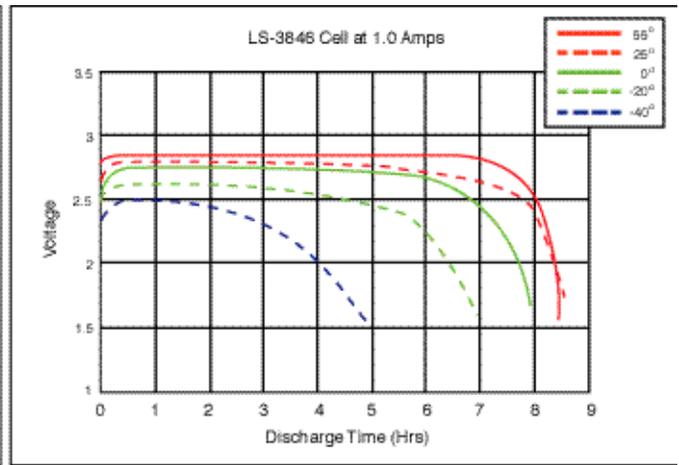
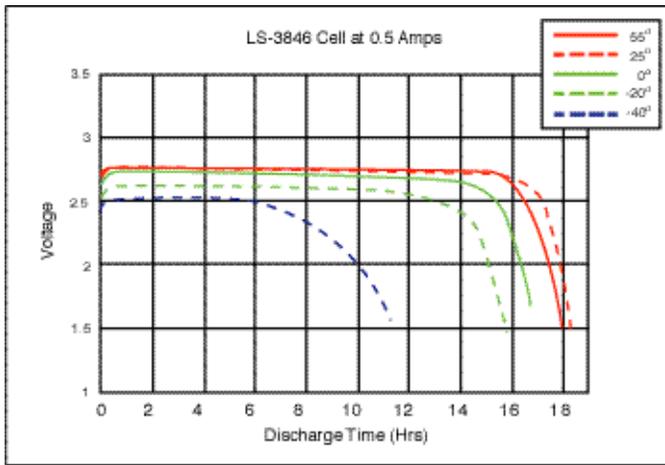
*at 25°C, 1.5 amp load to 2.0 volts

See over for discharge graphs.

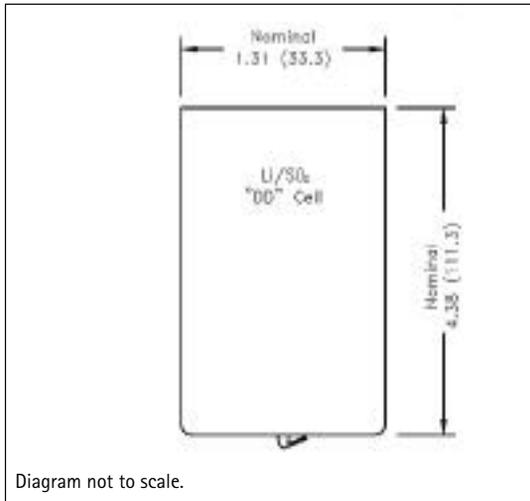


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LS-33112 – LITHIUM SULFUR DIOXIDE “DD” CELL



FEATURES

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- 350±50 psi mechanical vent (US Patent 4,610,370) for safe operation
- TA-23 Glass To Metal seal for 10-year shelf life with low voltage delay
- Electrolyte optimized for high temperature storage and low temperature performance
- Porous carbon cathode designed for high rate and high capacity
- Balanced cell chemistry for safe operation
- Spiral wound electrode design
- Operating range -40°C to +55°C
- Flat discharge curve
- Positive and/or negative tabs
- Custom finishing

APPLICATIONS

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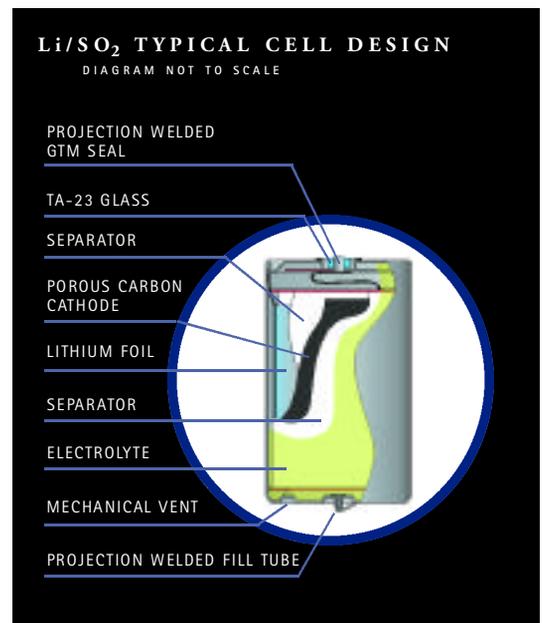
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CELL SPECIFICATIONS

OPEN CIRCUIT VOLTAGE	3.0 Volts
NOMINAL VOLTAGE	2.8 Volts *
CAPACITY	17.5 Ah *
WEIGHT	165 grams
SPECIFIC ENERGY	280 Wh/kg at C/5 and 25°C
ENERGY DENSITY	510 Wh/l at C/5 and 25°C

*at 25°C, 1.5 amp load to 2.0 volts

See over for discharge graphs.



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