

Li-SO₂ Roadmap

Lithium SO₂ Key Strengths

- Able to deliver high current at extreme temperatures (-40 C to 70 C)
 - Low temperature may require activation (scrubbing)
- High pulse discharge
 - C/5 to C/2 continuous discharge is typical
 - Pulses up to 7C
- Long Storage life
 - Passivation of Li anode allows long periods of storage
- Ideal applications
 - Long storage followed by short time application
 - High pulses at wide operating temperatures
 - Portable and light weight missions



Wide product range-See product sheet

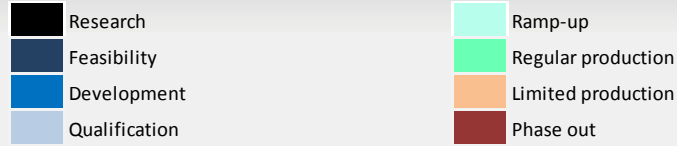
| | POWER | | | | | | HIGH POWER | | | | |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | LO 34 SX | LO 35 SX | LO 40 SX | LO 26 SX | LO 26 SXC | LO 25 SX | LO 29 SHX | LO 30 SHX | LO 26 SHX | LO 43 SHX | LO 39 SHX |
| Cell size | 1/3 C | 2/3 C | 2/3 thin D | D | D | Fat D | C | Thin D | D | 5/4 D | F |
| Cell construction | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral |
| Nominal voltage | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V |
| Nominal capacity | 1.0 Ah | 2.2 Ah | 3.5 Ah | 7.75 Ah | 9.2 Ah | 8.0 Ah | 3.75 Ah | 5.75 Ah | 7.5 Ah | 5.0 Ah | 11.5 Ah |
| Max. continuous current | 0.5 A | 2.0 A | 2.0 A | 2.5 A | 2.5 A | 2.5 A | 2.5 A | 3.0 A | 4.0 A | 2.5 A | 3.0 A |
| Max. pulse discharge rate | 1.0 A | 5.0 A | 5.0 A | 5.0 A | 10.0 A | 10.0 A | 6.0 A | 10.0 A | 15.0 A | 10.0 A | 60.0 A |
| Max. outside diameter | 25.6 mm | 25.9 mm | 28.95 mm | 34.2 mm | 34.2 mm | 39.5 mm | 25.6 mm | 29.1 mm | 34.2 mm | 26.0 mm | 31.9 mm |
| Max. height | 20.45mm | 35.9 mm | 42.29 mm | 59.3 mm | 59.3 mm | 50.3 mm | 50.4 mm | 59.9 mm | 59.3 mm | 59.2 mm | 100.3 mm |
| Typical weight | 16 g | 30 g | 40 g | 85 g | 85 g | 96 g | 40 g | 63 g | 85 g | 53 g | 125 g |
| Operating temperature range | -40 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C |



| | POWER | | | | | | | | |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | G 04/3 | G 06/2 | G 32/3 | G 36/2 | G 52/3 | G 54/3 | G 26 | G 22/6 | G 62/1 |
| Cell size | 1/2 AA | AA | 2/3 A | Long A | C | 5/4 C | D | DD | Long fat DD |
| Cell construction | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral | Spiral |
| Nominal voltage | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V | 2.8 V |
| Nominal capacity | 0.45 Ah | 0.95 Ah | 0.8 Ah | 1.7 Ah | 3.2 Ah | 5.0 Ah | 7.75 Ah | 16.5 Ah | 34.0 Ah |
| Max. continuous current | 0.25 A | 0.5 A | 0.75 A | 1.5 A | 2.5 A | 2.5 A | 2.5 A | 3.0 A | 8.0 A |
| Max. pulse discharge rate | 0.4 A | 0.8 A | 1.2 A | 2.5 A | 5.0 A | 5.0 A | 5.0 A | 10.0 A | 12.0 A |
| Max. outside diameter | 14.2 mm | 14.2 mm | 16.3 mm | 16.3 mm | 25.6 mm | 25.6 mm | 34.5 mm | 33.3 mm | 41.7 mm |
| Max. height | 27.9 mm | 50.3 mm | 34.5 mm | 57.7 mm | 49.5 mm | 60.2 mm | 59.8 mm | 120.6 mm | 141.0 mm |
| Typical weight | 8 g | 15 g | 12 g | 18 g | 47 g | 58 g | 85 g | 175 g | 300 g |
| Operating temperature range | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C | -60 / +70°C |



Lithium SO2 Product RoadMap



| Cell designation | Site | | | | | Chemistry | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | | 2019 | | | | | | | |
|---------------------|------|-----|-----|-----|-----|-----------|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|--|--|--|--|
| | POI | ZHU | SSH | VAL | BUD | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | |
| LO SX range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 34 SX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 35 SX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 40 SX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 26 SX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 25 SX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO SHX range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 29 SHX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 30 SHX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 26 SHX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 43 SHX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 39 SHX | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| LO SXC range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 26 SXC | | | | X | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G 04/3 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G 06/2 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G 32/3 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G 36/2 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G 52/3 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G 54/3 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G 26 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G 22/6 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| G 62/1 | | | X | | | Standard | | | | | | | | | | | | | | | | | | | | | | | | |