OXIS ENERGY
Next Generation Battery Technology

Ultra Light Lithium Sulfur Pouch Cell

Ultra Light

High gravimetric energy density, Rechargeable Li-S Pouch Cell

Key Features

- Extremely lightweight: **400 Wh/kg** already proven
- Safe
- Full 100% Discharge Capability
- Ideal for use in Portable Batteries, Electric Vehicles, Defence, Aviation and Satellites
- Large format size available
- Bespoke cell sizes available
- Nominal Voltage: 2.1V

Ultra Light Cell Specification

Evaluation Samples (P1)	**Now!**	**Now!**	*Request*
Pre-production Samples (P2)	*Request*	*Request*	*Request*
Production (P3)	*Request*	*Request*	*Request*
Typical Capacity (Ah)	13.2	19.5	18.5
Gravimetric Energy (Wh/kg)	300	300	390
Volumetric Energy (Wh/L)	197	228	277
Max. Peak Discharge (C)	2	3	N/A
Max. Continuous Discharge (C)	1	2	0.5
Min. Charge Time (Hours)	5	5	5
Cycle Life (Cycles) 80% DoD	100	100	50
Operating Temperature (°C)	+5 to +30	+5 to +40	+5 to +40
Storage Temperature (°C)	-30 to +20	-30 to +20	-30 to +20
Pouch format (mm)	148x80x12.5	151x111x10.7	145x80x12
Part Number	POA0217	POA0309	POA0281

Development Roadmap			
2017	2018	2019	2020
Up to 25	Up to 30	Up to 40	Up to 40
425	450	**500**	**500**
425	450	500	550
5	5	5	6
2	2	4	4
4	3	3	2
300	500	1000	1500
-30 to +70			
-30 to +70			
Dimensions dependent on cell capacity			
-	-	-	-

Notes:

1. Cell types available: Evaluation (P1) samples are uncharacterised cells, without warranty. Pre-production (P2) samples are characterised cells without warranty. Production (P3) cells are characterised and warrantied.
2. Gravimetric and volumetric energy parameters are measured at a 0.1C discharge rate at and temperature of 30°C. Figures exclude tabs and seals.
3. Peak power figures are based on a 30 second discharge pulse.
4. Maximum discharge rates are expressed as a C-Rate, defined as a ratio of the maximum discharge power (W) to the typical cell capacity (Wh).
5. Energy and Power figures in the development roadmap are shown for a 40 Ah cell and exclude tabs. Smaller cells will have lower energy and power characteristics.
6. Depth of Discharge (DoD) is the percentage of the cell's rated capacity discharges relative to a fully charged condition.
7. The information contained in this document is for reference only, and should not be used as a basis for product guarantee or warranty.

V4.04 (25-Jul-17)