



**High gravimetric energy density, Rechargeable Li-S Pouch Cell**

Key Features

- ◆ Extremely lightweight: >400 Wh/kg already proven
- ◆ Safe
- ◆ Full 100% Discharge Capability
- ◆ High Power type for Aviation and Automotive
- ◆ High Energy type for HAPS
- ◆ Bespoke cell sizes available

**Ultra Light Cell Technology Specifications**

Type	High Power	High Energy
Part Number	POA0343	POA0412
Availability	Evaluation Sample	
Operating Voltage (V)	1.9-2.6	
Nominal Voltage (V)	2.1	
Typical Capacity (Ah) 0.2C discharge at 20°C to 1.9V	19.5	14.7
Gravimetric Energy (Wh/kg)	300*	400**
Max. Peak Discharge (C) <30s, 50% SoC, 20°C	6	3
Max. Continuous Discharge (C)***	2	1
Max. Charge Rate (Hours)	4	
Cycle Life (Cycles) 100% DoD****, 80% BoL	80-100	60-100
Cycle Life (Cycles) 80% DoD, 60% BoL	~200	
Operating Temperature (°C)*****	0 to 30	
Storage Temperature (°C)	-30 to 30	
Pouch Format (mm) Length x width x thickness	151x118x10.5	145x78x10
Tab Dimensions (mm) Length x width x height	27x20x0.1	
Cell Weight (g)	137	85
Abuse Safety Testing	In-House to IEC62133 standard	

Notes:

- \* Figure obtained at 0.2C discharge at 30°C
- \*\* Figure obtained at 0.1C discharge at 20°C
- \*\*\* 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).
- \*\*\*\* Depth of Discharge (DoD) is the percentage of the cell's rated capacity discharges relative to a fully charged condition.
- \*\*\*\*\* The same range applies for both charge and discharge.

**Notice to Readers:**

OXIS Energy Ltd reserves the right to make changes to this document and without prior notice.  
We do not support orders from consumers, please see our website for details about our cell production and battery design partners  
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