



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 Electric Vehicle
- ◆ High Energy type for Aeronautical, Defence and Maritime
- ◆ 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±0.5	14.7±0.5
Gravimetric Energy (Wh/kg)	300±5*	400±10**
Max. Peak Discharge (C) <30s, 50% SoC, 20°C	6	2
Max. Continuous Discharge (C)***	3	1
Max. Charge Rate (Hours)	4	
Cycle Life (Cycles) 100% DoD****, 80% BoL	80-100	60-100
Operating Temperature (°C)*****	0 to 30	
Storage Temperature (°C)	-30 to 45	
Pouch Format (mm) Length x width x thickness	151±2 x 118±2 x 10.5±1	145±2 x 78±2 x 10±1
Tab Dimensions (mm) Length x width x height	27±1 x 20 x 0.1	
Cell Weight (g)	137±2	85±2
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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