

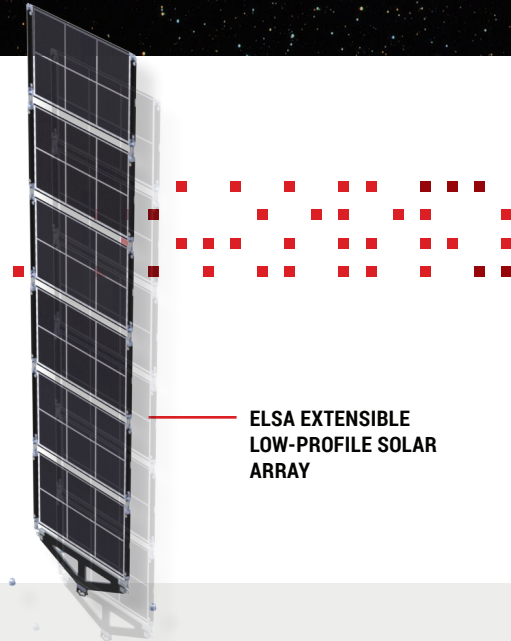


ELSA EXTENSIBLE LOW-PROFILE SOLAR ARRAY

> Product Overview

Redwire's ELSA Product Line is an innovative new technology designed for customers who need to minimize solar array stowed volume and mass, while remaining competitive with conventional solar array technology price and performance. Leveraging Redwire's experience with flexible substrates from our flight-proven ROSA technology, ELSA stacks 50% more frames in the same stowed volume of a traditional Solar Array, without compromising on performance or cost.

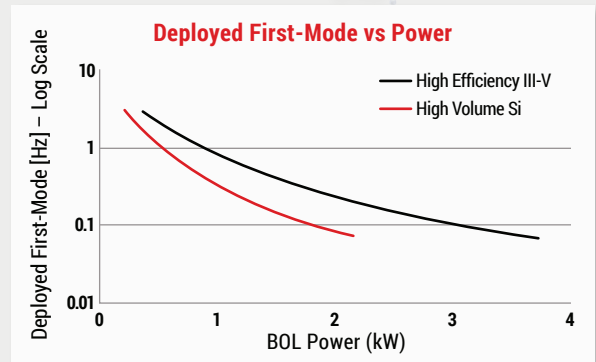
- + 50% better stowed volume (reduced stack height) vs a comparable rigid panel design
- + <12 months from PO to first delivery
- + Configurable design supports power requirements from 500W to 5kW
- + Choose from high-performance III-V or low-cost Silicon solar cell technologies
- + Ability to combine different cell technologies on the same wing



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PRODUCT INFORMATION

PAYLOAD SIZE (STOWED)	Configurable per mission requirements
POWER (BOL)	500W to 5kW
SOLAR CELL TECHNOLOGY	Cell Agnostic: ELSA can support III-V and Silicon technologies
STOWED FIRST MODE	>40Hz standard
DEPLOYED FIRST MODE	>.25Hz standard
OPERATIONAL TEMP RASNGE	125°C to -125°C standard (custom ranges can be supported)
SPECIFIC POWER	>100 W/kg



PRODUCT CAPABILITIES

- + Patent-pending nested frame design combines best features of heritage rigid wings and flight-proven flex blankets
- + Deep cross section of nested frame elements provides high deployed stiffness
- + Semi-flexible panel membrane supports common Solar Power Modules and different cell technologies
- + Like ROSA, photovoltaic assembly is de-coupled from structural construction, allowing for parallel workflows resulting in shorter delivery times
- + Employs High-performance Floating Center Flex Hinges and damped pantographic deployment synchronization common to typical rigid panel wings
- + Simplified construction and limited use of adhesives enables high volume production



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