



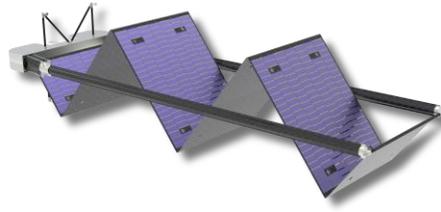
# REDPLOYABLE SOLAR ARRAY

## A SMARTER WAY FORWARD

Spacecraft disruptors demand maximum power and mobility from their solar arrays. The mass and stiffness of legacy solar arrays impose operational constraints, and the potential of deployment failures presents the greatest risk of early spacecraft mortality. The Atomic-6 Light Wing™ solar array is a lighter, stronger, and smarter solution for powering spacecraft. Its high-power-to-mass ratio and ability to reliably redeploy gives disruptors the power and the mobility they require while reducing mission risk.



Stowed  
Light Wing™ solar array



Partially deployed  
Light Wing™ solar array



Fully deployed  
Light Wing™ solar array

## BENEFITS

- **High power-to-mass ratio** enables more power and/or more delta-V
- **Redeployable**, significantly increasing mobility and decreasing risk for proximity operations
- **Higher stiffness** reduces modal frequency enabling improved imaging and communications

UP TO 200 WATTS  
PER KILOGRAM

## FEATURES

- Atomic-6 Process™ yields 5-10% improvement in specific strength and stiffness vs traditional composites
- Atomic-6 Space Mast™ structure has a double omega cross section deployed from the root, minimizing cantilevered mass and modal frequency
- Atomic-6 Space Hinge™ shape memory flexures connect solar panels to each other and the Space Mast™ structure, ensuring reliable panel spacing and directionality during retraction and redeployment
- Atomic-6 Light Sheet™ blankets, compatible with any solar cell, support rollable or Z-fold solar panels
- The Space Mast™ structure tensions the Space Hinge™ flexures and solar panels creating a system with high stiffness at low mass

*Light Wing™, Space Mast™, and Light Sheet™, and Space Hinge™ are Trademarks of Atomic-6, Inc.*

## CONTACT US:

sales@atomic-6.com | (404) 913-5250

[ATOMIC-6.COM/LIGHT-WING](https://atomic-6.com/light-wing)



THE WORLD'S FINEST COMPOSITE SOLUTIONS

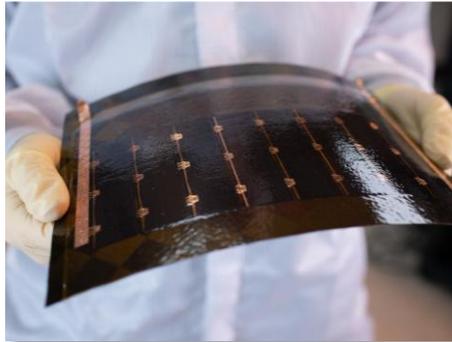
# LIGHT WING™

## REDPLOYABLE SOLAR ARRAY

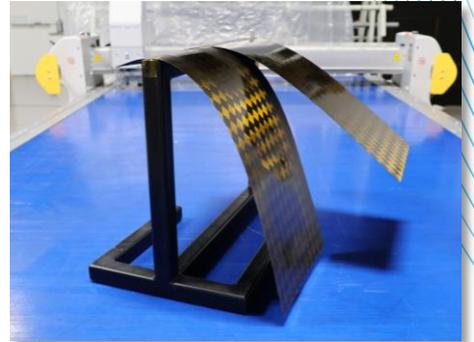
### LIGHT WING™ SOLAR ARRAY COMPONENTS



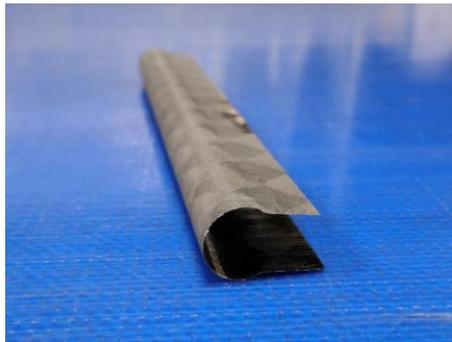
LIGHT WING™ SOLAR ARRAY  
CONCEPT RENDERING



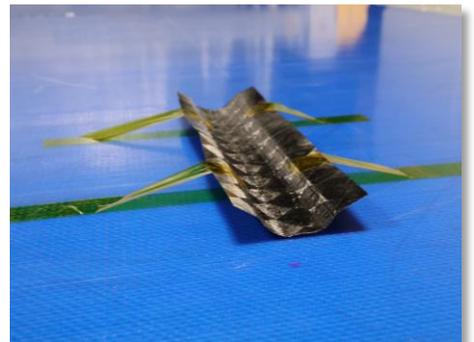
LIGHT SHEET™ BLANKETS WITH  
SOLESTIAL CELLS



LIGHT SHEET™ BLANKETS  
DIRECTIONALLY STIFF (BACK)  
VS. FLEXIBLE (FRONT)



SPACE HINGE™ FLEXURE STOWED



SPACE HINGE™ FLEXURE DEPLOYED



LIGHT WING™ SUPPORT STRUCTURE  
WITH TWO 15 FT. SPACE MAST™ TUBULAR STRUCTURES FULLY DEPLOYED

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