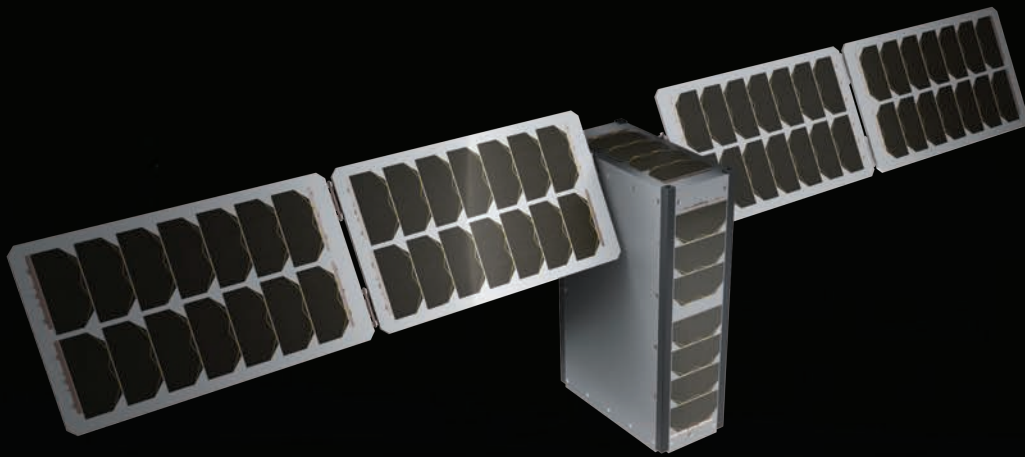




SOLIS

CubeSat Power Solutions



Powering your Spacecrafts

www.dhruvaspace.com

Solis



Solis Solar Arrays have flown on our own satellites and performed exceptionally towards successful missions.

Solis is a portfolio of Space-grade Solar Arrays built using high-efficiency (up to 30%) Triple-junction GaAs Solar Cells to maximise power generation. These Solar Arrays are specifically engineered and manufactured by Dhruva Space to operate in the Space environment, providing a reliable source of electrical power for various types of satellites and spacecrafts.

- Mission-specific custom designs
- Faster turnaround time
- Deployables
- Powering CubeSats (0.5U to 16U)
- LEO-optimised

Key Features

High-efficiency (up to 30%) Triple-Junction GaAs Solar Cells

Coverglass Interconnected Cells (CICs) with integrated bypass diode

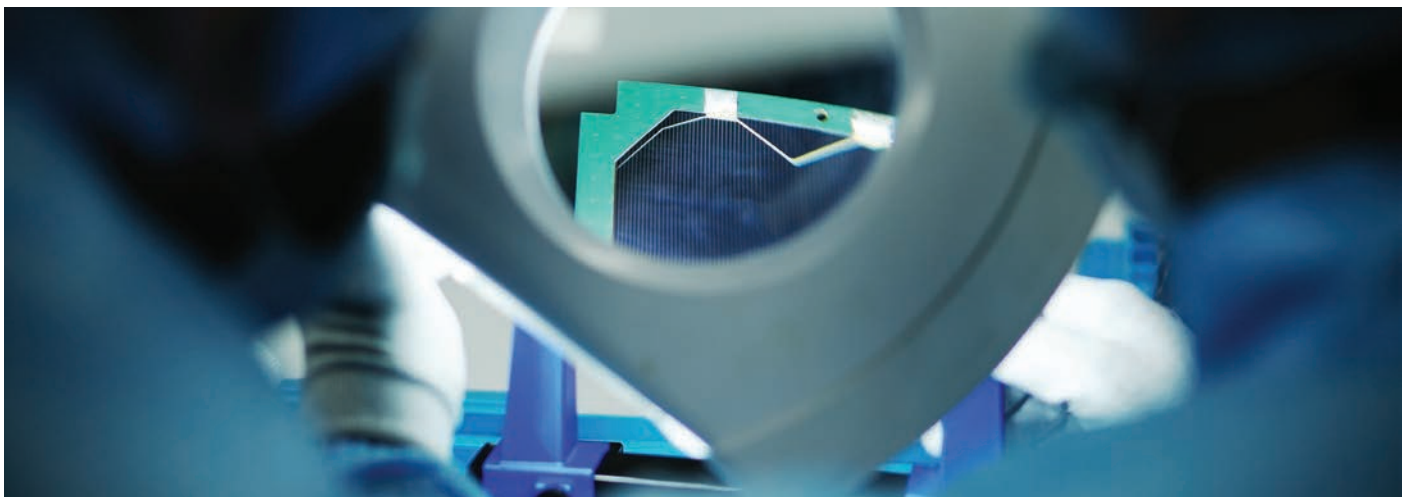
Compatible with CubeSat design standards (As per CubeSat Design Specification REV 14.1 CP-CDS-R14.1)

Custom options:

- Access to Remove Before Flight (RBF) circuits
- Sun Sensors
- Temperature Sensors
- Integrated Magnetorquers

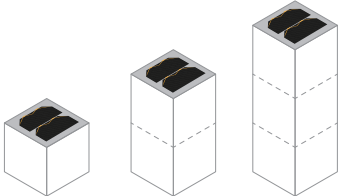
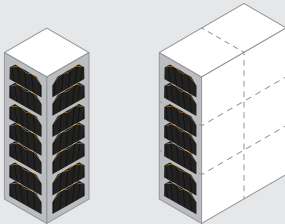
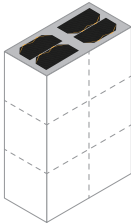
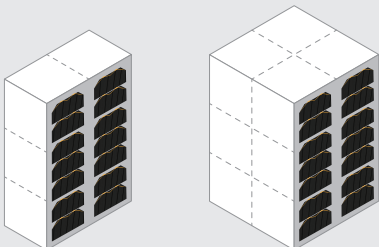
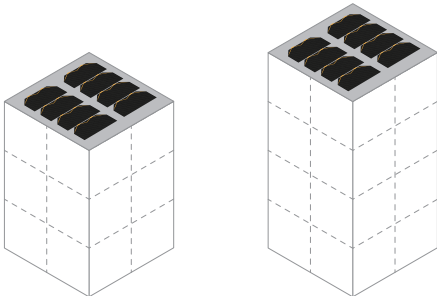
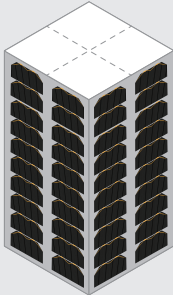
Deployables with flight-proven Hinges and Hold-Down and Release Mechanisms

CICs bonded to FRP (Fibre-Reinforced Polymer) substrate with Kapton overlay



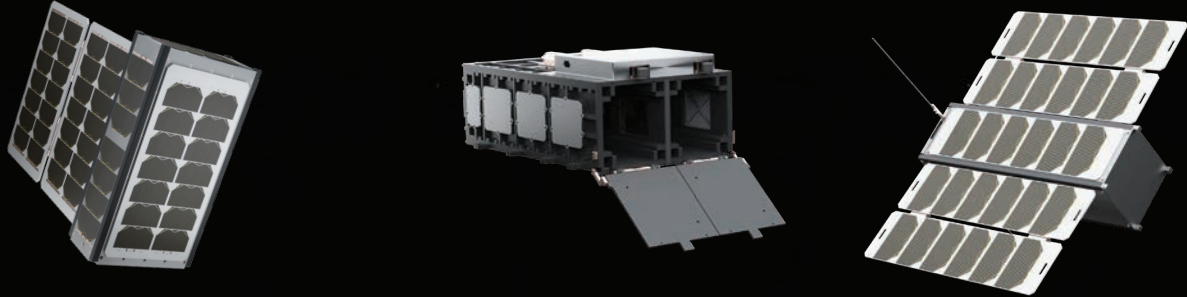
Product Portfolio

Off-the-shelf Solar Arrays

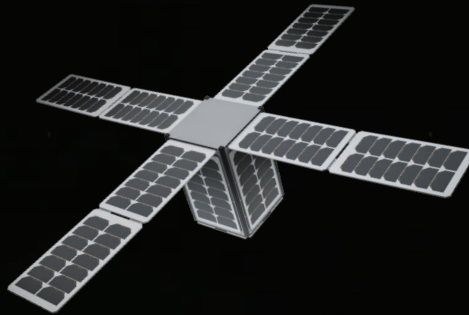
ID	Power (in W)	Compatibility	Visual representation
3Z	2.4	1U, 2U, 3U	
3X/Y	8.4	3U, 6U	
6Z	4.8	6U	
6X	16.8	6U, 12U	
12Z	9.6	12U, 16U	
16X/Y	24.0	16U	

Custom Solar Arrays

Our team of design and engineering experts can evaluate the customer's requirements to build custom Solar Arrays, that are tailored to meet a given mission's specific requirements, such as mass, power, longevity, orbital parameters, and more.

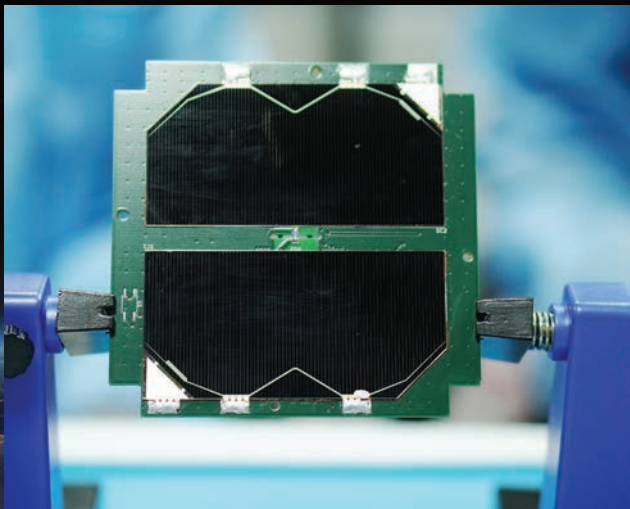


Dhruva Space's custom-made orbital deployers effectively eliminate limitations related to 'side volumes' and seamlessly integrate additional Solar Arrays to meet higher power demands.



Qualification

Dhruva Space is an ISO 9001:2015 certified company and manufactures Solar Arrays in a Class 10,000 (ISO7) Cleanroom environment. We conduct a test campaign on our Solar Arrays, ensuring their flight-readiness for the harsh conditions of the Space environment before delivering to the customer.



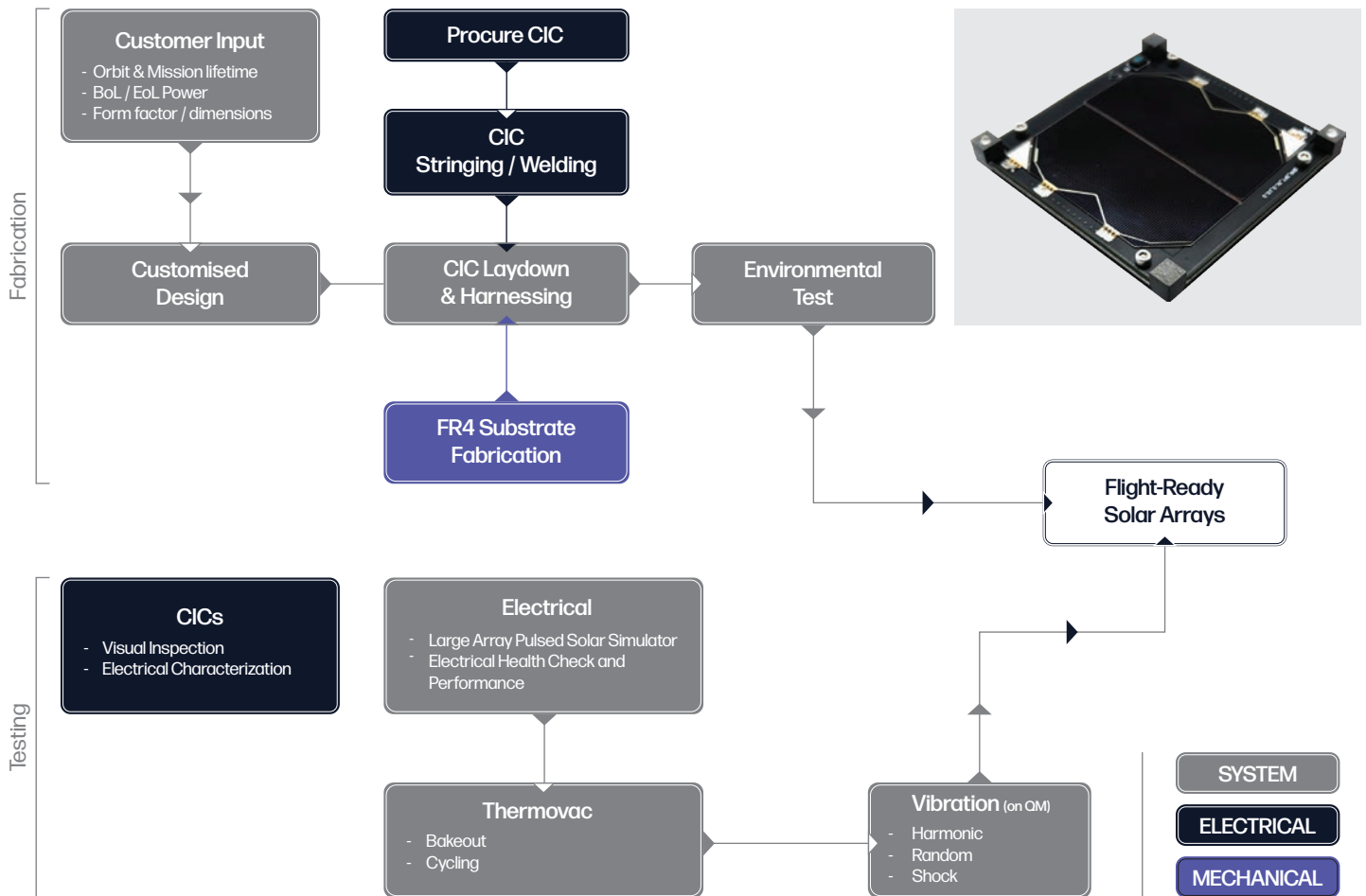
Type of Test	QT*	AT*
Incoming Material Inspection	✓	✓
Visual Inspection	✓	✓
LAPSS/Flash	✓	✓
Electrical Health Check	✓	✓
Vacuum Bake-out	✓	✓
TVAC	✓	✓
Vibration	✓	
Shock	✓	

*QT: Qualification Test will be carried out on the qualification model

*AT: Acceptance Test will be carried out on the flight model

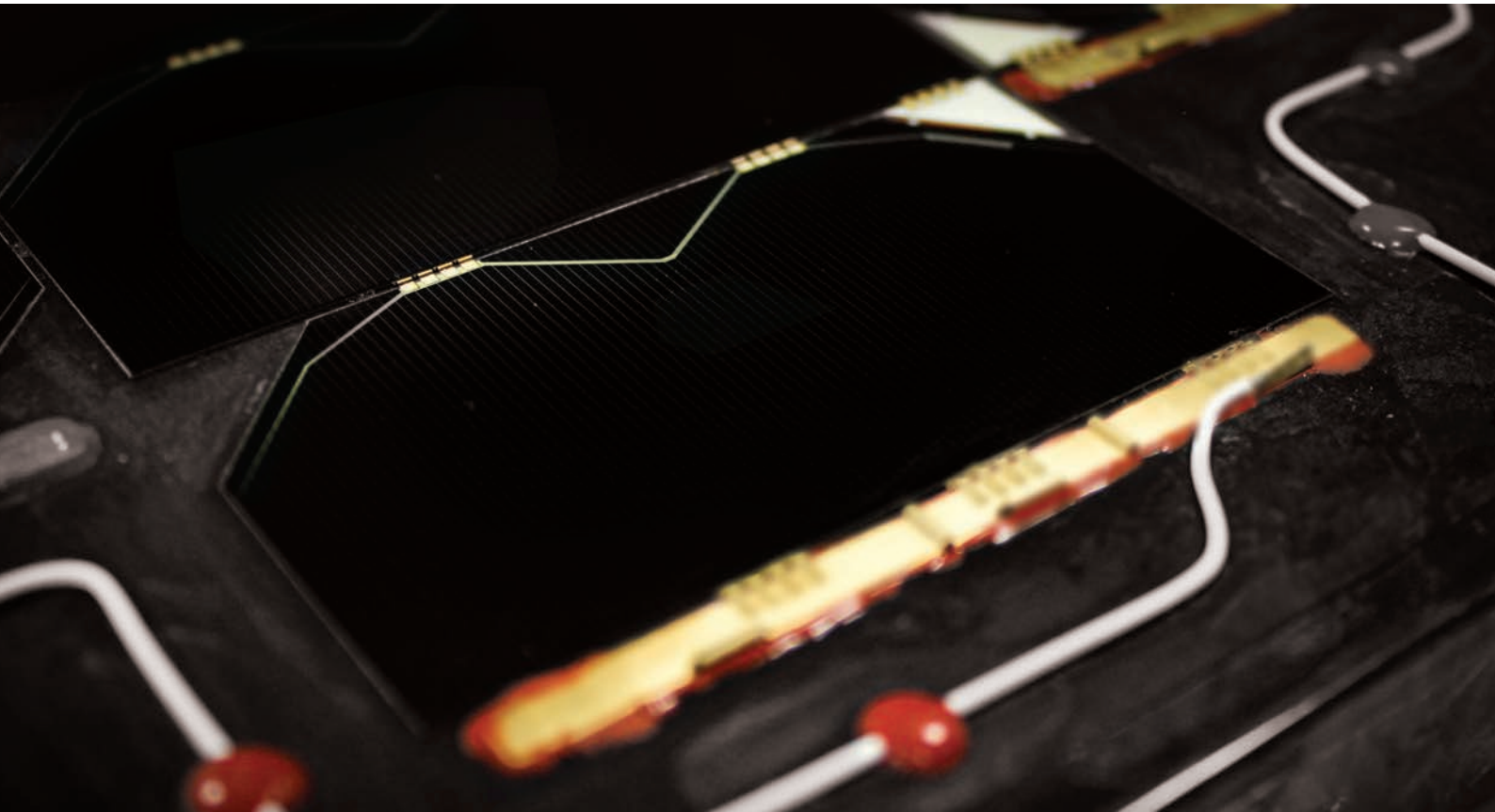
Fabrication & Testing Process

All processes adhere to ECSS or equivalent standards.



About

Dhruva Space Private Limited is a full-stack Space Engineering solutions provider, offering Satellites coupled with Earth stations and Launch services as an integrated solution or individually as a technology solution to power Space-based applications on Earth and beyond. The company's international presence includes our office Dhruva Space GmbH in Graz, Austria.



Powering your Spacecrafts

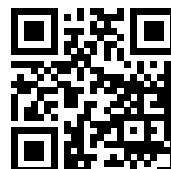


Still render of Dhruva Space's upcoming AIT facility to be located at TSIC Hardware Park II, Telangana, India

Contact

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Hyderabad-500016, Telangana, India



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more information