



SPACECRAFT BUSES,
SYSTEMS & SOLUTIONS

POWER SYSTEMS CAPABILITIES

Ensure the reliability and functionality of onboard subsystems with our flight-proven power system capabilities. Blue Canyon solar arrays, solar array drive assemblies and batteries offer outstanding power efficiency, flexibility and fault tolerance.

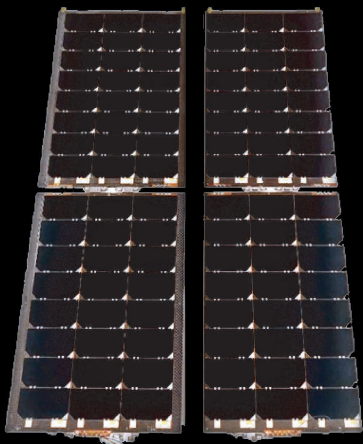
ESPA-Class Venus Solar Array
222 W or 444 W

SOLAR ARRAYS

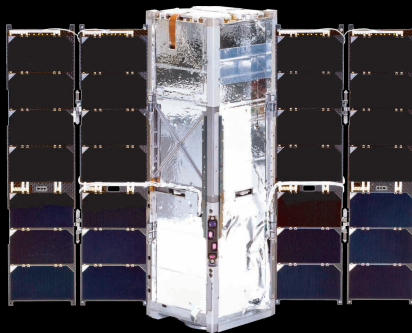
Solar panels generate power with high-efficiency solar cells. Blue Canyon offers configurations ranging from simple body-mounted wings to multi-panel and multi-wing deployed arrays with the option to gimbal up to two arrays. Our standard arrays include 30 percent efficient cells, carbon fiber substrates and magnetic-dipole mitigation.

Release mechanisms and solar array drive assemblies (SADAs) are available for optimum sun-pointing operations.

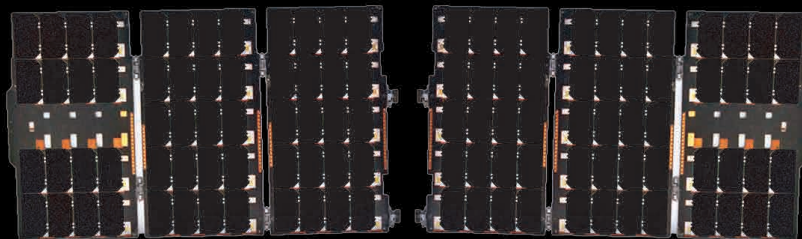




6U-V Double Panel Solar Array
48 W - 96 W



3U Double Panel Solar Array
27 W - 34 W



6U-12U-H Triple Panel Solar Array
54 W - 118 W

POWER SYSTEMS CAPABILITIES

NOMINAL PARAMETERS*

*Parameters at 60 C/BOL

	3U	6U/12U	VENUS-CLASS MICROSATELLITE	SATURN-CLASS MINISATELLITE
SOLAR ARRAY POWER	27 - 34 W	48 - 118 W	222 - 444 W	600 - 1200 W
ARRAY VOLTAGE	15 VDC	17.5 or 35 VDC	37 VDC	39 VDC

FEATURES:

- Industry-leading 30 percent efficient solar cells
- Carbon fiber structures
- TRL-9 flight heritage

OPTIONS:

- Linear, rotary and micro release mechanisms options for CubeSats
- Frangibolt® release mechanisms for minisatellites

Note: This data is for information only and subject to change. Please contact Blue Canyon Technologies for current design data.



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