

SOLAR ARRAY

SUMMARY:

As the main power source of the satellite, the solar array is mainly composed of a substrate and high-efficiency space-grade GaAs solar cell circuit, directly converting solar energy into electrical energy to supply power to the satellite. Everlight has a range of laminated solar arrays and related assembly equipment offering solar cells reaching up to 30% efficiency, with our solar arrays having been deployed on more than 80 satellites. Everlight's solar arrays are manufactured in a 1,200 sq meter assembly area with constant temperature and humidity. Our control of the design and manufacturing process allows us to provide maximum flexibility to clients.

Applications: smallsat constellations in LEO or SSO, space science missions

Key Features: space certified on more than 80 satellites, highly flexible configuration of high-efficiency solar arrays, fully vertically-integrated manufacturing process, sold internationally

Everlight Space Solar Arrays

	Nano/Micro Satellite Solar Array	Small Satellite Solar Array
Substrate Type	FR4 printed board (with PI film) or anodized aluminum substrate	Aluminum honeycomb carbon fiber
Solar Cell	30% efficiency GaAs solar cells	
Output Power	Customized to client requirement	
Recommended Operating Temperature	-90°C - +90°C	-100°C - +130°C
On-orbit Deployment Method	Modular design supporting multiple deployment methods	Supports multiple deployment methods
Assembly Process	Aerospace-grade thermal process	Aerospace-grade thermal process
Applicable satellites	≤ 20kg	≥ 20kg

Photo

