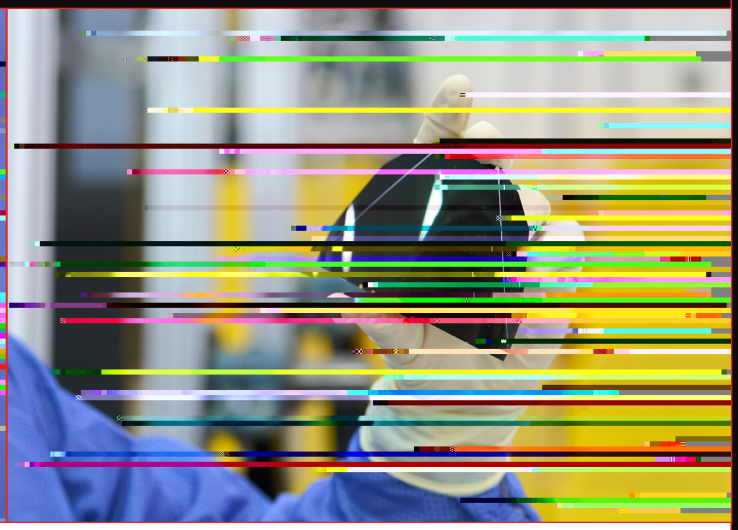
IMM-α
SPACE SOLAR CELL



32.0%
Minimum Average Efficiency

Fully tested to the AIAA-S111-2014 space qualification and characterization Standard.

FEATURES

- Inverted metamorphic n-on-p solar cell
- Solar cell mass of 49mg/cm² which represents a 42% reduction as compared to the ZTJ solar cell
- Radiation hardened design @ 1-MeV, 1E15 e-/cm² fuence P/Po = 0.87 (ECSS post-radiation annealing)
- Compatible with corner-mounted silicon bypass diode for individual cell reverse bias protection
- Superior mechanical strength for reduced attrition during assembly and laydown
- Weldable or solderable contacts
- Custom sizes available

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Annealed to ECSS-E-ST-20-08C Rev.1

BOL & EOL (1-MeV electron irradiation)

BOL	-10.5	9.8	-11.2	6.7
5E14	-11.7	9.9	-12.5	5.2
1E15	-11.9	9.7	-12.0	3.3
5E15	-12.5	9.0	-12.8	7.6

*Projected temperature coeffcients based upon data for similar materials and device structures

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2	70.6
3	76.9
4	83.3
6	96.0