

TrisolX Solar Cells

28% Efficient GaAs Triple Junction Solar Cells

Product Description

- TrisolX Solar Wings are cut from 28% efficient Azurspace space qualified solar cell wafers.
- Designed for high power applications where space, weight and budgets are at a premium.

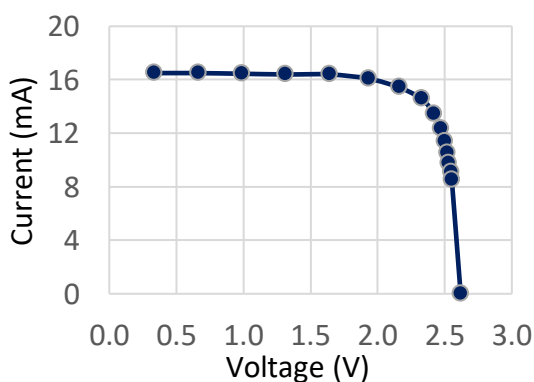
Typical Cell Electrical Parameters

1 Sun - AM 1.5G - (100 mW/cm²) @ 25°C

Voltage (Open Circuit)	2.62 V
Voltage (Max Power)	2.33 V
Current (Max Power)	14.6 mA
Power (Max Power)	34 mW
Efficiency	28%
Temp Coeff. V (Max Power)	-6.1 mV/°C

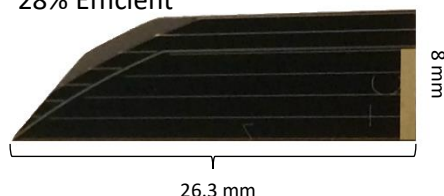
(Based on 1.3 cm² device area)

Typical Cell I-V Curve (AM 1.5G)



Product Image

TrisolX-LS Solar Wings
28% Efficient



Power Applications

- Avian GPS transmitters devices
- DIY Pico-Satellite including Pocketcube, CubeSat, TubeSat, KickSat,
- Small UAV's for long duration flight
- Remote or unattended power for parking meters, crosswalk lighting, and structural sensors

Design & Mechanical

Substrate	Germanium (Ge)
Triple Junction	GaInP/GaAs/Ge
AR Coating	TiO _x /Al ₂ O ₃ 0.3-1.8 μm
Dimensions	8 mm x 26.3 mm
Thickness	160 μm (Approx)
Active Cell Area	1.3 cm ² (Approx)
Weight	175 mg (Approx)
Contact Thickness	4-10 μm
Cell Type	Azurspace 3G28C

This information contained on this sheet is for reference only. Actual specifications for delivered products may vary slightly.