

## TrisolX Solar Wings 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.

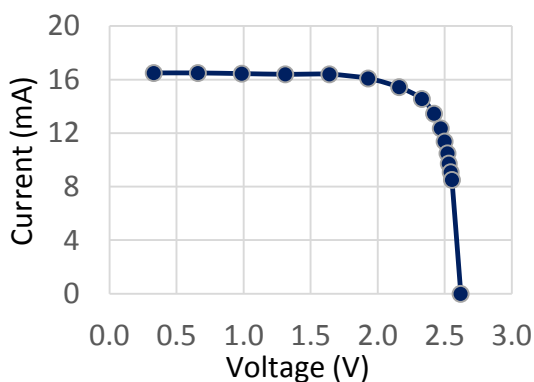
### Typical Cell Electrical Parameters

1 Sun - AM 1.5G - (100 mW/cm<sup>2</sup>) @ 25°C

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

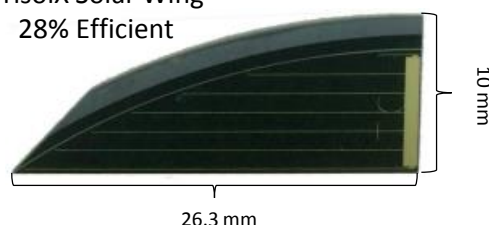
(Based on 1.3 cm<sup>2</sup> device area)

### Typical Cell I-V Curve (AM 1.5G)



### Product Image

TrisolX Solar Wing  
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

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

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