TrisolX
Power Innovation

www.trisolx.com

# TrisolX Solar Wings
# 28% Efficient GaAs Triple Junction Solar Cells

## Product Description

- TrisolX TJ 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.

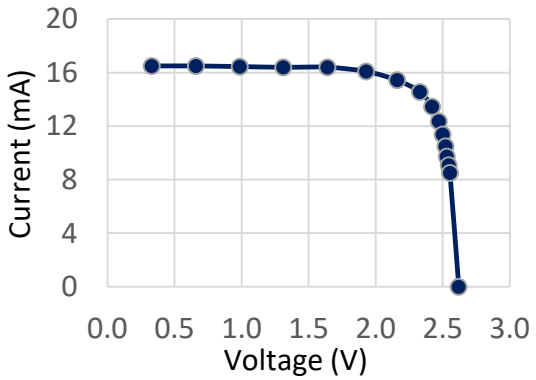
## Typical Cell Electrical Parameters

1 Sun - AM 1.5G - (100 mW/cm$^2$) @ 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 |

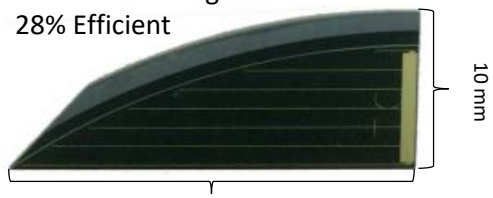
(Based on 1.3 cm$^2$ device area)

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




## Product Image

TrisolX-LC Solar Wing
28% Efficient




## Applications

- Avian GPS transmitters devices
- Perfect for DIY Pico-Satellites including Pocketqube, 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 | $TiO_x/Al_2O_3$ 0.3-1.8 µm |
| Dimensions | 10 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.

sales@trisolx.com TrisolX +1.631.892.6260