

# Why Heterojunction Technology (HJT)?

Peak Performance: HJT cells have achieved an unprecedented efficiency of 26.7%, setting a new standard for single-junction cells.

**Exceptional Durability:** HJT ensures cells last longer with a very low rate of efficiency loss over time.

Streamlined Smart Manufacturing: The production of HJT cells is simplified to a 4-step process (vs >10-steps for PERC/TOPCon).

High Bifacial Performance: Bifacial efficiency can reach up to 95%, enhancing power generation by utilizing light from both sides of the cell.

Efficiency in Large-Scale Manufacturing: HJT cells consistently achieve average production efficiencies over 25.5%.

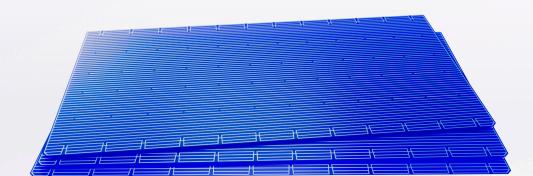
Reduced Heat Sensitivity: Thermal coefficient is under 0.3%/°C, making these cells exceptionally suited for areas with high temperatures.

Use of Thinner Silicon Wafers: Feasibility of using wafers thinner than 90 µm, reducing costs and improving production efficiency. i/n a-SiOx/mc-Si:H

n type c-Si wafer

i/p a-SiOx/mc-Si:H

TCO



Modules Powered by HJT X3 Cell Technology

Maximizing Energy Output with Bifacial Technology



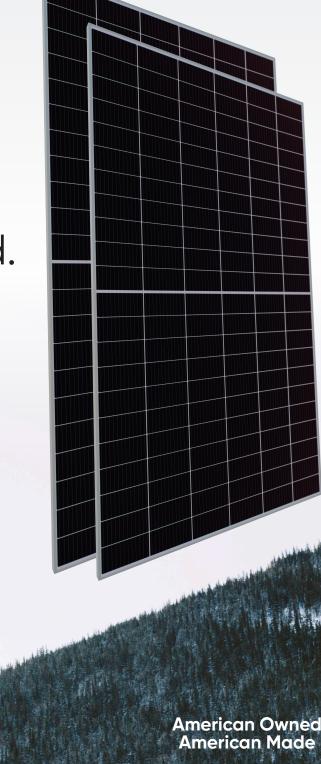
nuvisionsolar.com info@nuvisionsolar.com Moving Energy Forward



hybridcelltech.com



Designed with Power, Reliability, Performance and Affordability in Mind.





We are an **American owned company**, redefining the solar industry through cuttingedge heterojunction module and cell\* manufacturing, bringing **Made-In-America** quality and reliability to developers that exceed expectations on performance and efficiency.

\*X3 Cells manufactured by our sister company Hybrid Cell Technology

### **Delivering Innovation for the Long-Term**

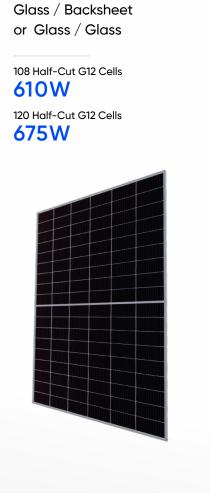
- State of the Art R&D and Testing Center •
- X3 Heterojunction Cell Technology (HJT) •
- Tandem HJT Cells and Modules
- BIPV and Architectual designs
- Delivering a lower LCOE
- Greater resistance to (PID) & (LID)

# Glass / Backsheet or Glass / Glass 132 Half-Cut G12 Cells 74 0 W 144 Half-Cut G12 Cells 810 W

### **Commercial & Industrial**



### Residential



### **Module and Cell Manufacturing Facility**





### HJT X3 Bifacial Half Cut Cells

25.5%+ efficient n-type HJT Cells featuring zero-busbar (OBB) VHF-PECV deposited a-SiOx:H(i) and microcrystalline mc-Si(Ox):H(n/p) layers.\*



### **US Domestic Content Certified**

Our sister company (Hybrid Cell Technology) manufactures the HJT cells in the same facility as our modules qualifying them for the 40% ITC.



## 20 yr Product &35 yr Performance Warranties

We stand behind our product with our module reliability and a company warranty. The result is a system that can yield you up to 45% more power under our warranty vs. our competitors 25yrs.



# Zero Busbar (OBB) interconnection Technology

Improved reliability, with up to 15X more connection points verses traditional busbar modules, by reducing microcracking and hotspot effects.



### -0.25%/C Pmax Temp. Coefficient

The lower temperature coefficient of HJT cells produces a module that operates more efficiently, producing more power in high temperature environments.



### Higher Reliability and Maximum Power

Designed for maximum power output over time, with fewer performance issues. No LID and PID results in an increase in power of up to 9% more than P-Type (PERC cells) after 25 yrs.

**2.5GW** 

HJT Module and Solar Cell SF of Manurand Office

±1,337,000
SF of Manufacturing, R & D Lab, and Office Space



NuVision HJT Solar Modules are
Manufactured to **exceed** the

70% Domestic Content requirements
for the Solar Investment Tax Credits
(ITC). This provides our Customers
with the benefit of an
additional 10% ITC.

AMERICAN OWNED AMERICAN MADE







Performance Warranty







