
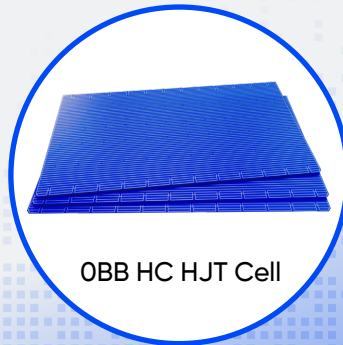




144HC-G12-GG HJT

American Made 810W

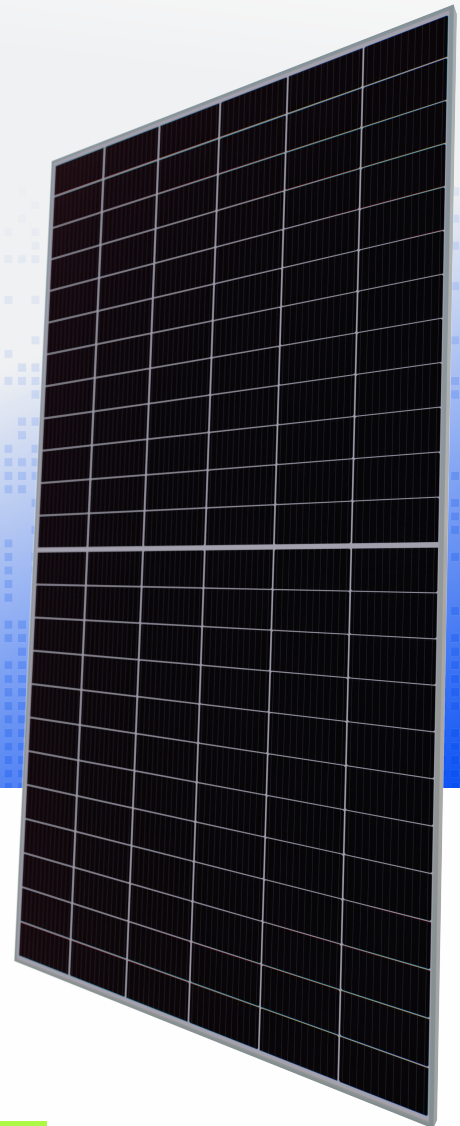
Heterojunction X3 (HJT)
Bifacial Half Cut Cells
by  Hybrid Cell
Technology



Developing Technology for America's Future.

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

A module designed and manufactured to meet the demands of the US Markets. We have optimized our products to support our customers' path to success by lowering the LCOE and maximizing your returns.



HJT X3 Bifacial Half Cut Cells

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



35 yr Performance & 20 yr Product 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.



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 (investment tax credit).



-0.27%/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.



Zero Busbar (OBB) interconnection Technology

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

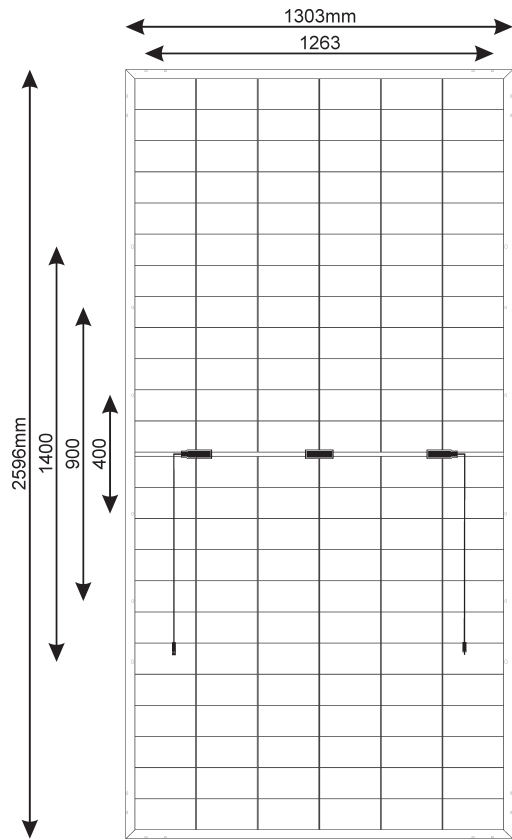


Higher Reliability and Maximum Power

Designed for maximum power output over time, with fewer performance issues. LID and PID free results in an increase in power of up to 9% more than p-type PERC modules after 25 yrs.

810W
Maximum Power Output

24.0%
Module Efficiency

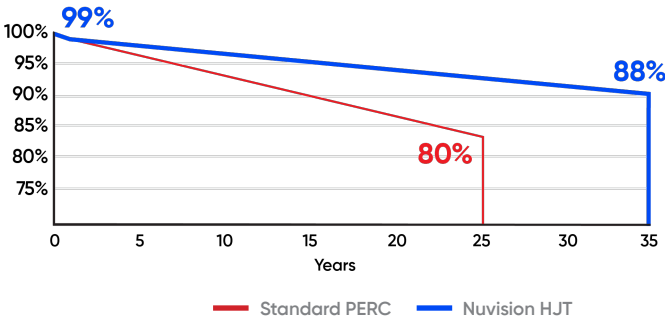


20 years

Product Warranty

35 years

Performance Warranty



| Model Types: 144HC-G12 HJT | | | | | |
|---|-------|-------|-------|-------|-------|
| STC: Irradiance 1000 W/m², Cell Temperature 25°C, Pmax is within +/- 3%, AM=1.5 | | | | | |
| Nominal Power (-0/+5%)-Pmp (W) | 770 | 780 | 790 | 800 | 810 |
| Efficiency (%) | 22.8 | 23.1 | 23.4 | 23.7 | 24.0 |
| Maximum Power Voltage-Vmp(V) | 46.04 | 46.19 | 46.27 | 46.5 | 46.67 |
| Maximum Power Current-Imp (A) | 16.79 | 16.94 | 17.15 | 17.28 | 17.38 |
| Open Circuit Voltage-Voc (V) | 53.5 | 53.6 | 54.0 | 54.3 | 54.5 |
| Short Circuit Current-Isc (A) | 17.71 | 17.91 | 18.02 | 18.12 | 18.19 |
| Maximum System Voltage-Vsys (V) | 1500 | 1500 | 1500 | 1500 | 1500 |

| Electrical Data | | | | | |
|---|-------|-------|-------|-------|-------|
| (NMOT): 45°C (800W/m2, 20°C air temperature, AM 1.5, 1m/s wind speed) | | | | | |
| Nominal Power-Pmp (W) | 549 | 555 | 561 | 566 | 571 |
| Maximum Power Voltage-Vmp (V) | 40.21 | 40.31 | 40.52 | 40.71 | 40.92 |
| Maximum Power Current-Power (A) | 13.66 | 13.75 | 13.83 | 13.92 | 14.01 |
| Open Circuit Voltage-Voltage (V) | 47.97 | 48.01 | 48.15 | 48.23 | 48.30 |
| Short Circuit Current (A) | 14.54 | 14.61 | 14.73 | 14.84 | 14.91 |

| BSTC | | | | | |
|---|-------|-------|-------|-------|-------|
| Back side reflection irradiation 135W/m2 AM=1.5, 25°C ambient air temperature | | | | | |
| Nominal Power-Pmp (W) | 847 | 858 | 869 | 880 | 891 |
| Maximum Power Voltage-Vmp (V) | 42.4 | 42.27 | 42.36 | 42.45 | 42.54 |
| Maximum Power Current-Imp (A) | 20.09 | 20.15 | 20.21 | 20.27 | 20.33 |
| Open Circuit Voltage-Voc (V) | 50.2 | 50.2 | 50.2 | 50.3 | 50.3 |
| Short Circuit Current-Isc (A) | 19.05 | 19.12 | 19.19 | 19.26 | 19.33 |

| Temperature Characteristics | |
|--|------------|
| Module Operating Temperature Range (°C) | -40 to +85 |
| Nominal Module Operating Temperature (NMOT) (°C) | 45 +-2 |
| Temperature Coefficient of Power (%/C) | -0.27 |
| Temperature Coefficient of Voltage (%/C) | -0.25 |
| Temperature Coefficient of Current (%/C) | 0.05 |

| Mechanical Description | |
|---|---|
| Module Dimensions (mm) | 2596 × 1303 × 35 |
| Area (m2) | 3.38 |
| Module Weight (kg / lb) | 37.4 / 83.1 |
| Output Cables (can be customized to length) | 4mm2 (12 AWG), 0.6m length |
| Connectors | MC4 |
| Junction Box with or without Micro Inverter | Potted, 1500V x 3 bypass diodes (30A); IP68 rated |
| Cell Type made by Hybrid Cell Technology | Bifacial G12 HJT |
| Cell Configuration | 144 Half Cut |
| Frame Material (Aluminum or Steel) | Clear or Black anodized |
| Front Glass | 1.6 mm AR Coated |
| Back Glass | 1.6 mm AR Coated |
| Fire Type | Type 1 |
| Load Rating | 5400Pa (Front) 2400Pa (Rear) |

| Packaging Information | | |
|-----------------------|-----------------------|------------------------------|
| Module Count | Modules per 53" Truck | Modules per 40" HT Container |
| Modules Per Pallet | 28 | 33 |
| Pallet Quantity | 22 | 18 |
| Total Module Quantity | 616 | 594 |

Module and Cell
Made in the USA



Notice: All data and specifications are preliminary and subject to change without notice. NuVision Solar, reserves the right to make any adjustment to the information in this document described herein at any time without notice. Pre-release.