

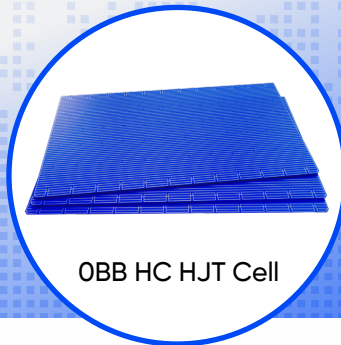
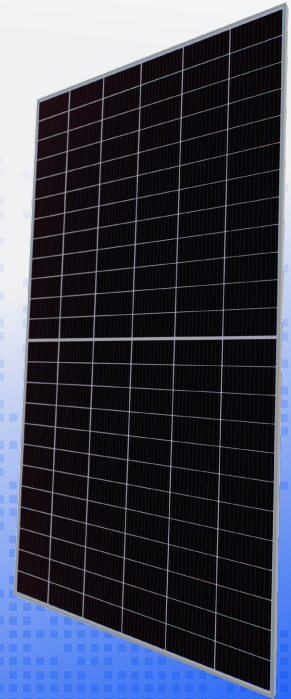


144HC-G12-GG HJT

# American Made 810W

Heterojunction X3 (HJT)  
Bifacial Half Cut Cells

by  **Hybrid Cell**  
Technology



OBB HC HJT Cell

**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 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 (investment tax credit).



### Zero Busbar (OBB) interconnection Technology

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



### 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.



### -0.27%/C Pmax Temp. Coefficient

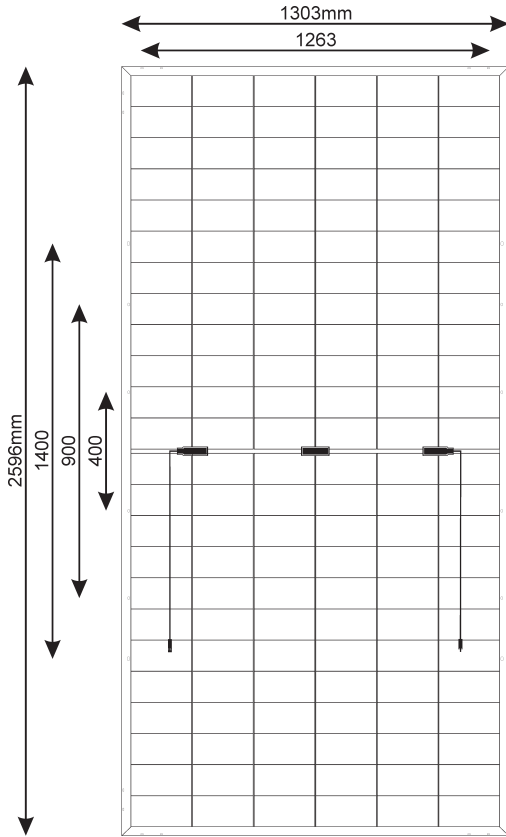
The lower temperature coefficient of HJT cells produces a module that operates more efficiently, producing more power in high temperature environments.



### 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.

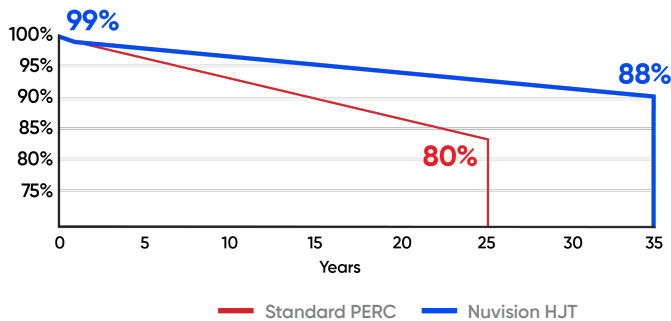
**810W** Maximum Power Output  
**24.0%** Module Efficiency



Product Warranty



Performance Warranty



**Model Types: 144HC-G12 HJT**

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Pmax is within +/- 3%, AM=1.5

	770	780	790	800	810
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/m<sup>2</sup>, 20°C air temperature, AM 1.5, 1m/s wind speed)

	549	555	561	566	571
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/m<sup>2</sup> AM=1.5, 25°C ambient air temperature

	847	858	869	880	891
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)	2595 × 1303 × 35
Area (m <sup>2</sup> )	3.38
Module Weight (kg / lb)	37.4 / 83.1
Output Cables (can be customized to length)	4mm <sup>2</sup> (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.