



American Made

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

0BB 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 (0BB) VHF-PECV deposited a-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.



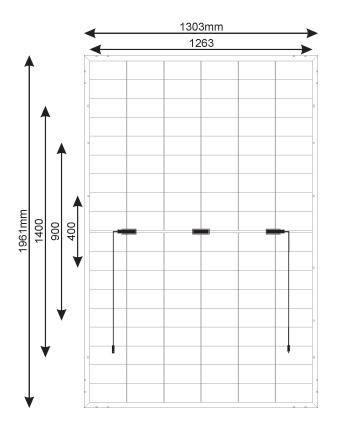
Higher Reliability and Maximum Power

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.

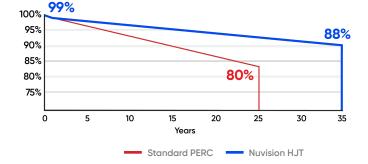
Notice: All data and specifications are preliminary and subject to change without notice. NuVision Solar, reserves the right to make any adjustment to the information in this document described herein at any time without notice. Pre-release. *Mueller, T. Heterojunction Solar Cells Logos Verlag Berlin, 2009. ISBN 978-3-8325-2291-9.











Model Types:108HC-G12 GG HJT						
STC: Irradiance 1000 W/m ² , Cell Tempo	erature 2	5°C, Pm	iax is	within +/-	3%, AM=1.	5
Nominal Power (-0/+5%)-Pmp (W)	570	58	0	590	600	61
Efficiency (%)	22.5	22.	.9	23.2	23.5	23
Maximum Power Voltage-Vmp(V)	34.37	34.4	43	34.54	34.72	34.
Maximum Power Current-Imp (A)	16.79	16.9	90	17.15	17.28	17.:
Open Circuit Voltage-Voc (V)	40.1	40.	.2	40.5	40.7	40
Short Circuit Current-Isc (A)	17.71	17.8	86	18.02	18.12	18.
Maximum System Voltage-Vsys (V)	1500	150	00	1500	1500	150
Electrical Data						
(NMOT): 45°C (800W/m2, 20°C air ten	nperature	e, AM 1.5	5, 1m	/s wind sp	eed)	
Nominal Power-Pmp (W)	445	45				
Maximum Power Voltage-Vmp (V)	31.7	32.0		32.24	32.43	32.
Maximum Power Current-Power (A)	13.9	14.0		14.1	14.14	14.
Open Circuit Voltage-Voltage (V)	38.73			39.24	39.42	39.
Short Circuit Current (A)	14.6	14.7	73	14.89	14.95	14.9
BSTC						
Back side reflection irradiation 135W/n	n2 AM=1	5 25%	amb	ient air ter	nperature	
Nominal Power-Pmp (W)	627	71		726	737	74
Maximum Power Voltage-Vmp (V)	42.1	42.3	-	42.35	42.34	42.
Maximum Power Current-Imp (A)	17.51	42		42.33	42.34	42.
	50.1	50		50.19	50.2	50.
Open Circuit Voltage-Voc (V) Short Circuit Current-Isc (A)	18.17	18.2		18.33	18.41	18.4
	10.17	10.2	25	10.55	10.41	10.
Temperature Characteristics						
Module Operating Temperature Range		-40 to +85				
Nominal Module Operating Temperatur						
Temperature Coefficient of Power (%/C		-0.27				
Temperature Coefficient of Voltage (%		-0.25				
Temperature Coefficient of Current (%	/C)				0.05	
Mechanical Description						
Module Dimensions (mm)		1961 × 1303 × 35				
Area (m2)		2.54				
Module Weight (kg / lb)		37.4 / 83.1				
Output Cables (can be customized to length)		4mm2 (12 AWG), 0.6m length				
Connectors				MC	4	
Junction Box with or without Micro Inverter		Potted, 1500V x 3 bypass diodes (30A); IP68 rat				
Cell Type made by Hybrid Cell Technol	logy	Bifacial G12 HJT				
Cell Configuration		108 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		Туре 1				
Load Rating		5	400F	Pa (Front)	2400Pa (Re	ar)
Packaging Information						
Module Count	Mo	dules per 5	3" Truc	k I	Aodules per 40" I	HT Conta
Modules Per Pallet		28			33	
Pallet Quantity		22			18	
Total Module Quantity		616			594	

Module and Cell Made in the USA

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