

60 CELL HETEROJUNCTION SOLAR MODULE WITH SMARTWIRE TECHNOLOGY

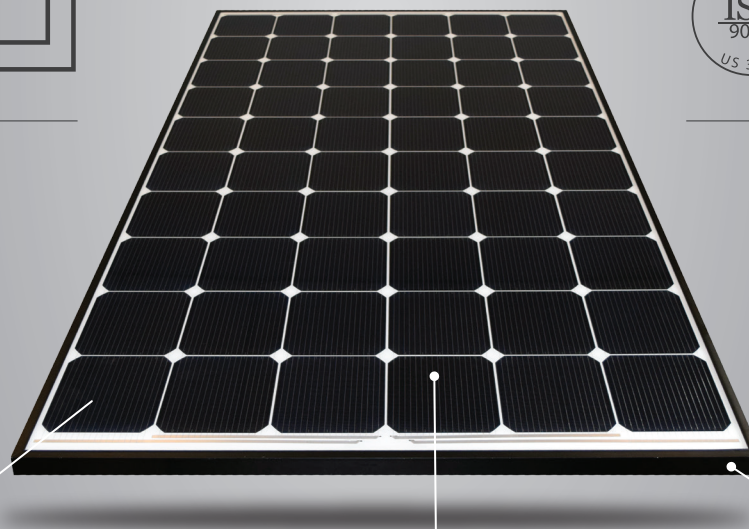


EPIQ
SOLAR PANELS

315W
HJT (N-TYPE)



CERTIFICATIONS:
IEC61215
IEC61730
UL1703
Conformity to CE



12
Year
Product
Warranty

30
Year
Performance
Warranty

SmartWire Technology lessens the effects of micro-fractures and shading

Heterojunction Busbar-less cells

Anodized aluminum frame (Space Black or Metallic Silver)

SMART FEATURES



Superior Energy Production

Module efficiency up to **19.6%** achieved by utilizing the most advanced technology in the solar industry.



Exceptional at Low-Light Conditions

The round shape of SmartWire reduces shading by 25% and introduces a light trapping effect.



SmartWire Technology (SWT)

The revolutionary process for connecting solar cells that outrivals busbars by spreading the electric current through 18 micro-wires.



Remarkable Connection Durability

SWT acts as a protective layer for the solar cell, ensuring reliable contact points for decades of consistent performance.



Advanced HJT Technology

This cell combines the advantages of N-type crystalline silicon with the excellent absorption and passivation of amorphous silicon.



Industry Leading Warranty

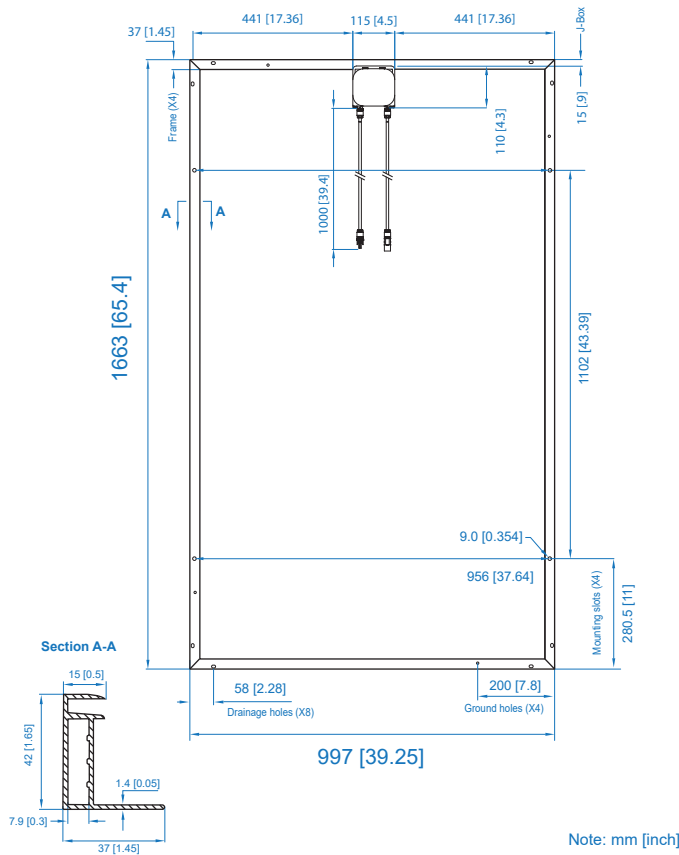
HJT cells, based on N-type silicon results in extremely low LID & PID, reducing annual degradation and guaranteeing more power.

Data is based on initial test results as supplied by TUV Rheinland / PTL & RETC & extrapolated for actual production module results. The specification and key features described in this datasheet may change, SolarTech Universal LLC. Reserves the right to make any adjustment to the information described herein at any time without notice.

Made in the US. ≥70% of contents from domestic suppliers. R77v1 05/31/2018



USA



Mechanical Characteristics

Laminate Structure	Glass / TPO / Cells / TPO / Backsheet
Module Weight	Approx. 18 kg (40lbs)
Cell Type	Heterojunction N-Type (156.75mm)
Cell Connection	60 Cells (Serial)
Junction Box	IP65/IP67 with 3 Bypass Diodes
Cables Length	1m [39.4 in]
Connectors Type	MC4 Compatible
Module Dimensions	997 x 1663 x 42mm [39.25 x 65.4 x 1.65]
Encapsulant	TPO (Hydrophobic)
Front Load (Snow)	5400 Pa / 112.8 Psf
Rear Load (Wind)	3800 Pa / 79.4 Psf
Collection Pathways	18 Micro-wires
Glass Thickness	3.2mm [.125] Anti-reflective Tempered Solar Glass (94% Transmittance)



USA

Electrical Characteristics STC

	STU-HJT-B-W-310	STU-HJT-B-W-315	STU-HJT-B-W-320
Average Power	310W	315W	320W
Module Efficiency (%)	19.0%	19.3%	19.6%
Voltage at Max power (Vmp)	36.7V	37.0V	37.3V
Current at Max power (Imp)	8.5A	8.5A	8.6A
Open Circuit Voltage (Voc)	43.6V	44.0V	44.3V
Short Circuit Current (Isc)	9.1A	9.2A	9.2A
Operating Module Temperature	-40°C → 85°C		
Maximum System Voltage	1000V DC (IEC + UL)		
Maximum Series Fuse Rating	20A		
Power Sorting	-0/+5W		

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT

	310W	315W	320W
Max. Power at NOCT (Pmax)	237.3W	241.2W	245.0W
Voltage Max. Power (Vmp)	34.7V	35.0V	35.2V
Current Max. Power (Imp)	6.8A	6.9A	7.0A
Open Circuit Voltage (Voc)*	41.5V	41.8V	42.2V
Short Circuit Current (Isc)*	7.3A	7.4A	7.4A

NOCT: 800 W/m² Irradiance, 20 °C ambient temperature, AM=1.5, wind speed 1 m/s
Values are based on RETC certified results from a light-soaked module.

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	46.06°C
Temperature Coefficient of Pmax	-0.264 %/°C
Temperature Coefficient of Voc	-0.237 %/°C
Temperature Coefficient of Isc	+0.035 %/°C

Maximum Power at PTC

	294.3w	299.1w	304w
PTC Percentage of STC	94.8%	94.9%	94.9%

Certifications & Warranty

Safety and Aging	IEC61215
Mechanical and Structural Safety	IEC61730 / UL1703
Modules Fire Performance	Type 2 (UL1703)
Product Warranty	12 Years
Performance Warranty of Pmax	30 Years Linear

* 1st year 97%, 30th year 80%. Details of these warranties can be found at www.solartechuniversal.com, under "Downloads"

Shipping Configurations

	GP	HC	Trailer
Container Length	20'	40'	53'
Pallets Per Container	12	24	36
Modules Per Pallet	20	23	23
Modules Per Container	240	552	828