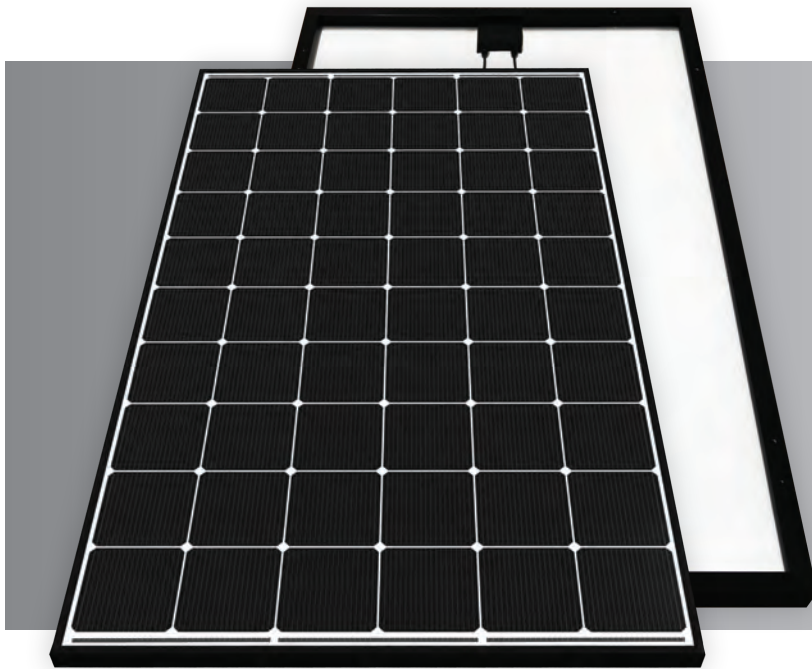


**60 CELL MONO-CRYSTALLINE
PERC SOLAR PANEL WITH
SMARTWIRE CONNECTION TECHNOLOGY**

up to **315W**



**SmartWire
Connection
Technology**

**Bi-facial
PERC Cells**

American Premium



SMART FEATURES



Superior Energy Production

Module efficiency up to **19.3%** achieved by utilizing the most advanced technology in the solar industry.



SmartWire Connection Technology (SWCT)

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



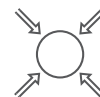
Advanced PERC Technology

An advanced mono-crystalline cell which improves energy production by adding a special layer to capture more sunlight.



Exceptional at Low-Light Conditions

The round shape of SmartWire Connection Technology (SWCT®) reduces shading by 25% and introduces a light trapping effect.



Remarkable Connection Durability

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



Industry Leading Warranty

Accomplished with superior materials proven to perform better against potential induced degradation (PID).

Electrical Characteristics STC

PERC - Black on White - 300 PERC - Black on White - 305 PERC - Black on White - 310 PERC - Black on White - 315

	300W	305W	310W	315W
Average Power	300W	305W	310W	315W
Max Module Efficiency (%)	18.4%	18.7%	19.0%	19.3%
Voltage at Max power (Vmp)	33.4V	33.6V	33.9V	34.2V
Current at Max power (Imp)	9.0A	9.1A	9.1A	9.2A
Open Circuit Voltage (Voc)	39.9V	40.2V	40.6V	40.9V
Short Circuit Current (Isc)	9.5A	9.6A	9.7A	9.8A
Operating Module Temperature	-40°C - 85°C			
Maximum System Voltage	1000V DC (UL)			
Maximum Series Fuse	20A			
Rating Power Sorting	-0/+5W			

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

NOCT

300W 305W 310W 315W

	300W	305W	310W	315W
Max. Power at NOCT (Pmax)	219.2W	222.9W	226.5W	230.2W
Voltage Max. Power (Vmp)	30.6V	30.8V	31.1V	31.4V
Current Max. Power (Imp)	7.2A	7.2A	7.3A	7.3A
Open Circuit Voltage (Voc)*	37.2V	37.5V	37.8V	38.1V
Short Circuit Current (Isc)*	7.6A	7.7A	7.7A	7.8A

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.

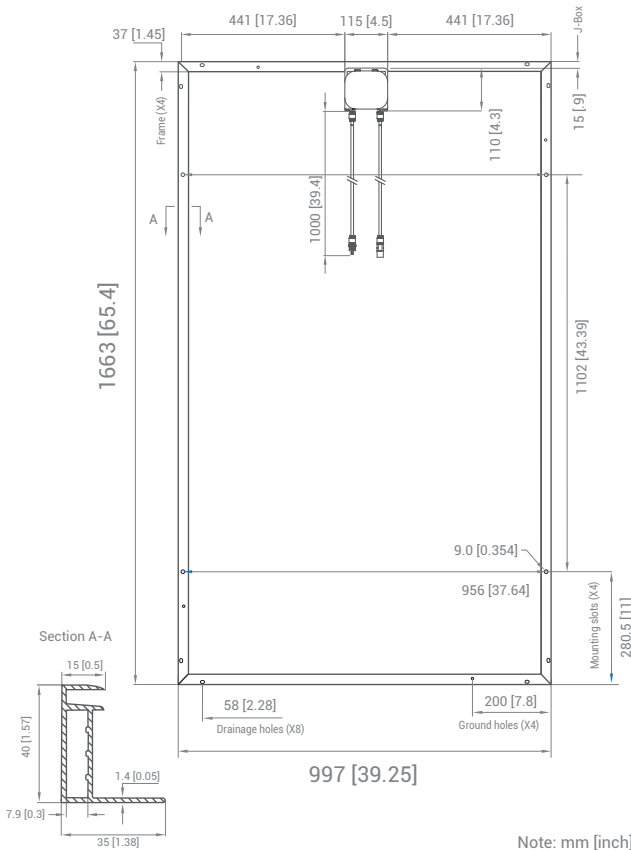
Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	45.3°C
Temperature Coefficient of Pmax	-0.364 %/°C
Temperature Coefficient of Voc	-0.281 %/°C
Temperature Coefficient of Isc	+0.041 %/°C

Mechanical Characteristics

Laminate Structure	Glass / TPO / Cells / TPO / Backsheet
Weight	Approx. 18 kg [40lbs]
Cell Type	Mono-Crystalline PERC (156.75mm)
Cell Connection	60 cells (Serial)
Junction Box	IP65/IP67 with 3 Bypass Diodes
Cables Length	1m [39.4 in]
Connectors Type	MC4
Module Dimensions	997 x 1663 x 40mm [39.25 x 65.4 x 1.65]
Encapsulant	(TPO) Hydrophobic
Front Load*	5500 Pa / 115 Psf
Rear Load*	5500 Pa / 115 Psf
Collection Pathways	18 Micro-wires
Glass Thickness	3.2mm [125] Anti-reflective Tempered Solar Glass (≥94% Transmittance)

*Mechanical load test report per Solar PTL (IEC 61730)



Note: mm [inch]

CEC Testing Results

PERC - Black on White - 300 PERC - Black on White - 305 PERC - Black on White - 310 PERC - Black on White - 315

Maximum Power at PTC	278.2W	282.9W	287.9W	292.3W
PTC Percentage of STC	92.7%	92.8%	92.8%	92.9%

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

* Extended lead time required. International transport only.

Certifications & Warranty

Safety	UL1703
Modules Fire Performance	Type 2 (UL1703)
Product Warranty	15 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"