SolarTech Universal

EPIQ™ Next-Generation Solar Panels

60 CELL MONO-CRYSTALLINE PERC SOLAR PANEL WITH SMARTWIRE TECHNOLOGY

up to 315W

Smartwire Technology

Bi-facial PERC Cells

American Premium

15 Year Product Warranty

30 Year Performance Warranty

UL 1703 · CEC Listed · Certified 2015 ISO 9001 US 3986 · PTL US CERTIFIED · FSEC Certified

SMART FEATURES

Superior Energy Production

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

SmartWire Technology (SWT)

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 reduces shading by 25% and introduces a light trapping effect.

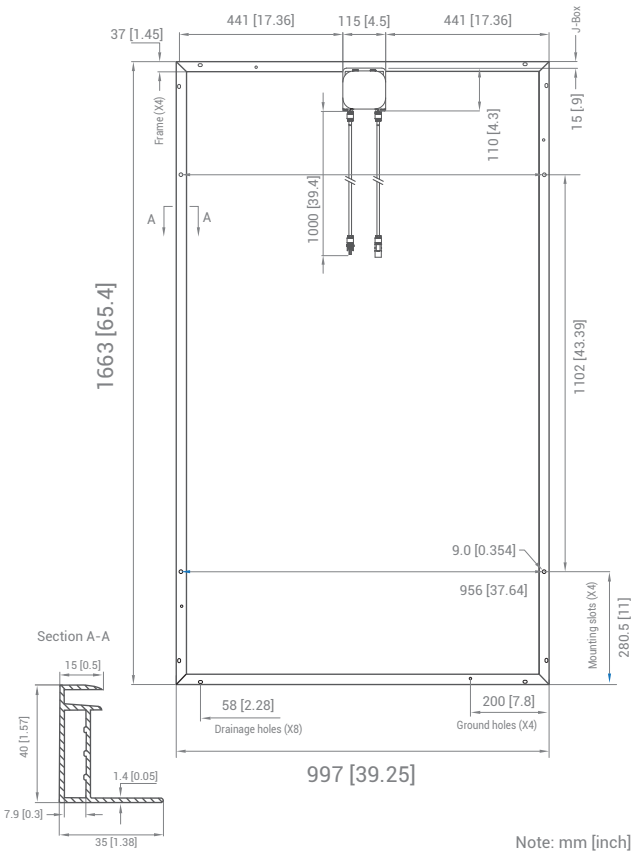
Remarkable Connection Durability

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).

SOLARTECH UNIVERSAL



Note: mm [inch]

Electrical Characteristics STC

	PERC - Black on Black - 300	PERC - Black on Black - 305	PERC - Black on Black - 310	PERC - Black on Black - 315
Average Power	300W	305W	310W	315W
Max Module Efficiency (%)	18.4%	18.7%	19.0%	19.3%
Voltage at Max power (Vmp)	33.6V	33.9V	34.1V	34.4V
Current at Max power (Imp)	8.9A	9.0A	9.1A	9.2A
Open Circuit Voltage (Voc)	40.1V	40.5V	40.8V	41.1V
Short Circuit Current (Isc)	9.5A	9.5A	9.6A	9.7A
Operating Module Temperature	-40˚C - 85˚C			
Maximum System Voltage	1000V DC (UL)			
Maximum Series Fuse	20A			
RatingPower 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
Max. Power at NOCT (Pmax)	215.4W	219.0W	222.6W	226.2W
Voltage Max. Power (Vmp)	30.6V	30.8V	31.1V	31.3V
Current Max. Power (Imp)	7.1A	7.1A	7.2A	7.2A
Open Circuit Voltage (Voc)*	37.0V	37.3V	37.6V	38.0V
Short Circuit Current (Isc)*	7.5A	7.5A	7.6A	7.7A

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)	45.02°C
Temperature Coefficient of Pmax	-0.366 %/°C
Temperature Coefficient of Voc	-0.280 %/°C
Temperature Coefficient of Isc	+0.043 %/°C

CEC Testing Results

	PERC - Black on Black - 300	PERC - Black on Black - 305	PERC - Black on Black - 310	PERC - Black on Black - 315
Maximum Power at PTC	278.2W	282.8W	287.7W	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.

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)

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"

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