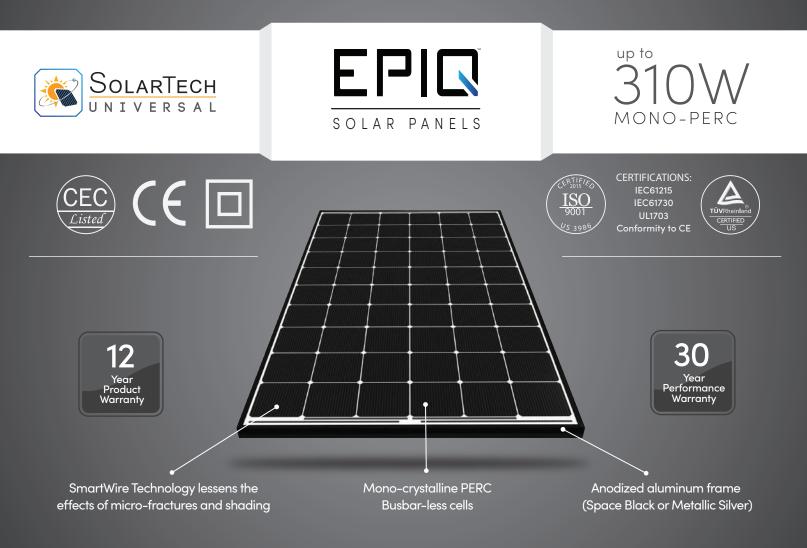
60 CELL MONO-CRYSTALLINE PERC SOLAR MODULE WITH SMARTWIRE



SMART FEATURES

Superior Energy Production

Module efficiency up to 19.0% 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 the wire shading by 25% and introduces a light trapping effect.

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

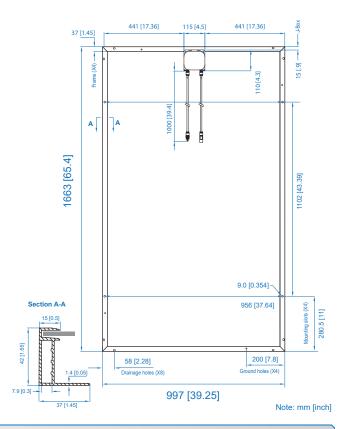


Industry Leading Warranty

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

Data is calculated using test results supplied by RETC & internal test 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. Assembled in the US with domestic and imported parts. 8/24/2018





Mechanical Characteristics

Laminate Structure	Glass / TPO / Cells / TPO / Backsheet
Weight	Approx. 18 kg [40lbs]
Cell Type [mm]	Mono-crystalline PERC (156.75 mm)
Cell connection	60 cells (Serial)
Junction Box	IP65/IP67 with 3 Bypass Diodes
Cables Length	1m [39.4 in]
Connectors Type	MC4 Compatible
Moduel 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)

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Electrical Characteristics STC	STU- PERCB W-295	STU- PERCB W-300	STU- PERCB W-305	STU- PERCB W-310	
Average Power	295W	300W	305W	310W	
Max Module Efficiency (%)	18.1%	18.4%	18.7%	19.0%	
Voltage at Max power (Vmp)	33.1V	33.4V	33.6V	33.9V	
Current at Max power (Imp)	8.9A	9.0A	9.1A	9.1A	
Open Circuit Voltage (Voc)	39.6V	39.9V	40.2V	40.6V	
Short Circuit Current (Isc)	9.5A	9.5A	9.6A	9.7A	
Operating Module Temperature	erating Module Temperature -40°C→ 85°C				
Maximum System Voltage	1000V DC (IEC + UL)				
Maximum Series Fuse Rating	e Rating 20A				
Power Sorting	-0/+5W				
STC: Irradiance 1000 W/m2, module temperature 25 °C, AM=1.5; Best in Class AAA solar					

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

NOCT	295W	300W	305W	310W
Max. Power at NOCT (Pmax)	215.6W	219.2W	222.9W	226.5W
Voltage Max. Power (Vmp)	30.3V	30.6V	30.8V	31.1V
Current Max. Power (Imp)	7.1A	7.2A	7.2A	7.3A
Open Circuit Voltage (Voc)*	36.9V	37.2V	37.5V	37.8V
Short Circuit Current (Isc)* NOCT: 800 W/m2 Irradiance, 20 °C ambient temperatu Values are based on RETC certified results from a light			7.7A	7.7A

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	45.3°C
Temperature Coefficient of Pmax	-0.366 %/°C
Temperature Coefficient of Voc	-0.281 %/°C
Temperature Coefficient of Isc	+0.041 %/°C
NOCT: 800 W/m2 Irradiance, 20 °C ambient temperature , AM=1.5, wind speed 1 m/s; NOCT values are based on RETC certified results. Based pm a 300w module	

Maximum Power at PTC	273.4w	278.2w	282.9w	287.9w
Percentage of STC	92.7%	92.7%	92.8%	92.8%

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 warraties 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



