

60 CELL MONO-CRYSTALLINE PERC SOLAR MODULE WITH SMARTWIRE

300W
MONO-PERC

EPIQ

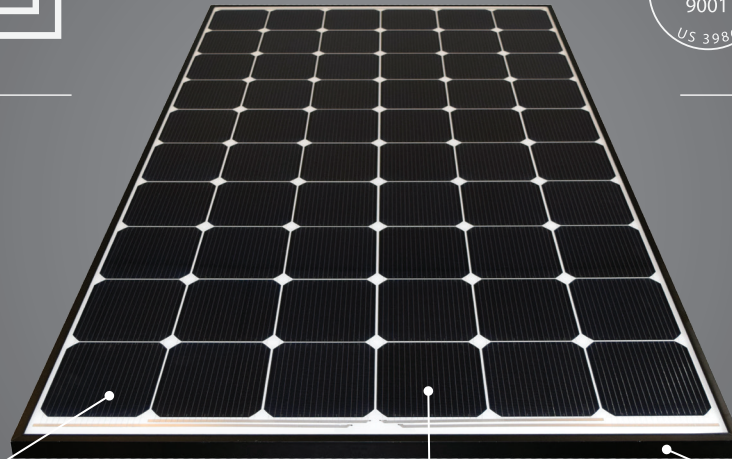
NEXT GENERATION SOLAR PANELS



SOLARTECH
UNIVERSAL



CERTIFICATIONS:
IEC61215
IEC61730
UL1703
Conformity to CE



12
Year
Product

30
Year
Performance

SmartWire Technology lessens the effects of micro-fractures and shading

Mono-crystalline PERC Busbar-less cells

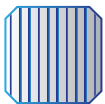
Anodized aluminum frame (Space Black or Metallic Silver)

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.



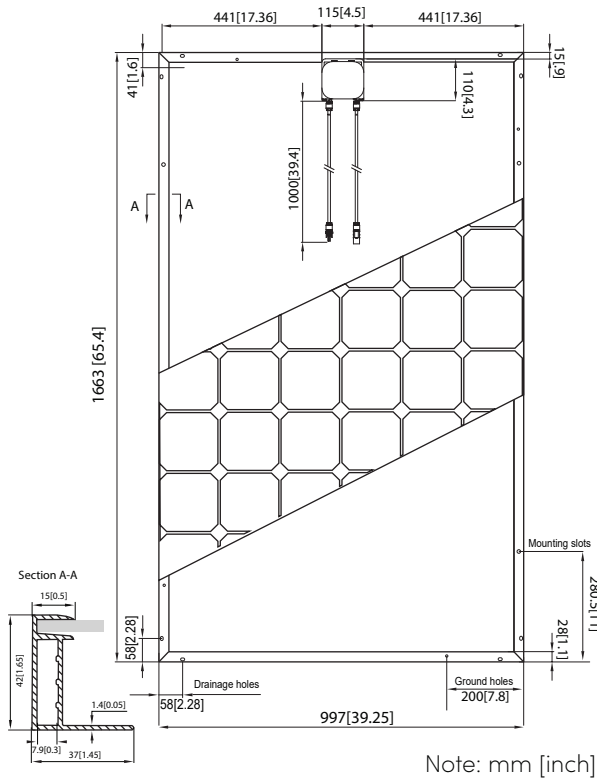
Remarkable Connection Durability

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).



Mechanical Characteristics

Laminate Structure	Glass / TPO / Cells / TPO / Backsheet
Weight	Approx. 18 kg [40lbs]
Cell Type [mm]	156.75 x 156.75 Mono-crystalline PERC
Cell connection	60 cells (serial)
Junction Box (Electrical)	3 bypass (Tyco) IP65/IP67
Connection Cable (Electrical)	Tyco Solar 4mm ² (1m length each)
Electrical Connectors	Tyco PV4
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 Series 300 PERC	STU Series 305 PERC	STU Series 310 PERC
Average Power	300W	305W	310W
Max Module Efficiency (%)	18.4%	18.7%	19.0%
Voltage at Max power (Vmp)	33.6V	33.6V	33.8V
Current at Max power (Imp)	9.0A	9.1A	9.2A
Open Circuit Voltage (Voc)	39.94V	40.1V	40.2V
Short Circuit Current (Isc)	9.5A	9.6A	9.6A
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	300W	305W	310W
Max. Power at NOCT (Pmax)	219.2W	223.8W	228.2W
Voltage Max. Power (Vmp)	30.6V	30.8V	30.9V
Current Max. Power (Imp)	7.2A	7.3A	7.4A
Open Circuit Voltage (Voc)*	37.2V	37.5V	37.8V
Short Circuit Current (Isc)*	7.6A	7.8A	8.0A

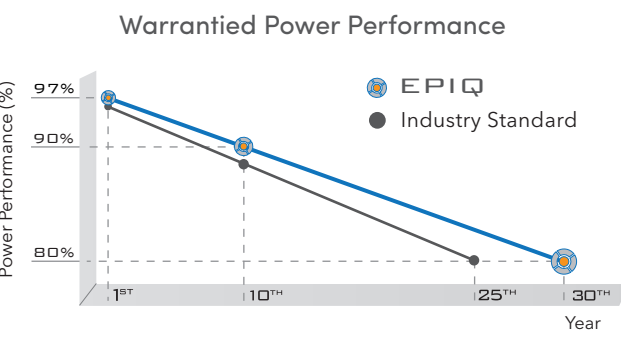
NOCT: 800 W/m² Irradiance, 20 °C ambient temperature , AM=1.5, wind speed 1 m/s
 Values are based on RETC certified results from a light-soaked module.

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	45.3°C
Temperature Coefficient of Pmax	-0.366 %/°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	278.2w	282.8w	287.4w
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Packing Configuration

Equipment	20' GP	53' Trailer
Modules per pallet	20	23
Pallets per unit	12	36
Modules per unit	240	828

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