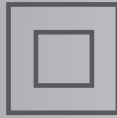


# 60 CELL MONO-CRYSTALLINE PERC SOLAR MODULE WITH SMARTWIRE



# EPIQ BLACK

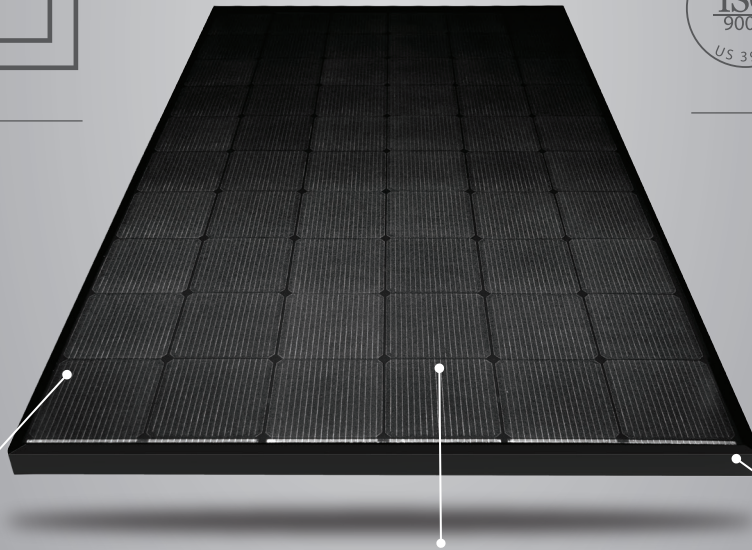
# 300<sup>+</sup> Watt



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)

## SMART FEATURES



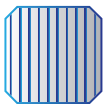
### Superior Energy Production

Module efficiency up to 18.7% achieved by utilizing the most advanced technology in the solar industry.



### Exceptional at low-light Conditions

The round shape of SmartWire produces a light trapping effect and reduces shading on the cell by 25% compared to busbars.



### SmartWire Technology (SWT)

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



### Remarkable Connection Durability

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



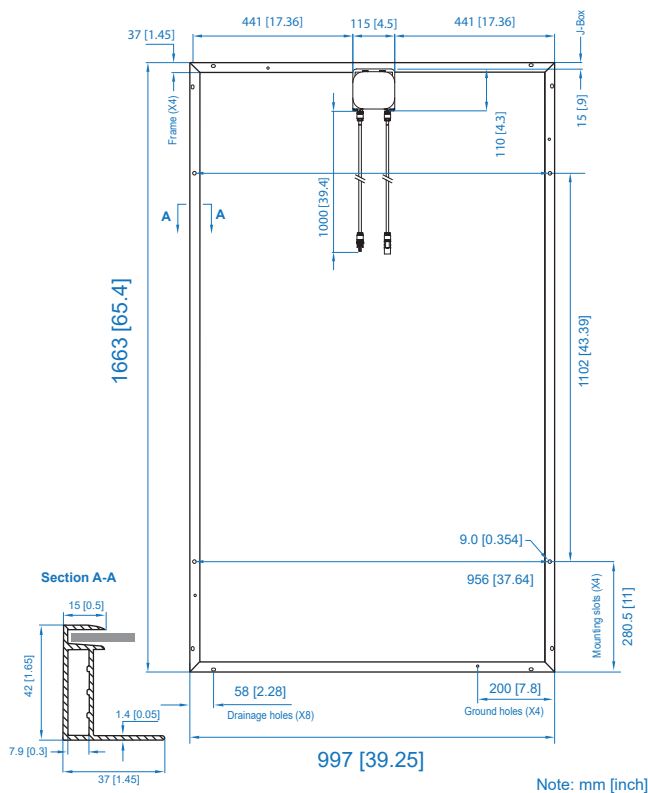
### Advanced PERC Technology

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



### 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 [156.75 x 156.75 mm]	Mono-crystalline PERC
Cell connection	60 cells (serial)
Junction Box (Electrical)	3 bypass (Tyco) IP65/IP67
Connection Cable (Electrical)	Tyco Solar 4mm <sup>2</sup> ( 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 [0.125] Anti-reflective tempered solar glass (≥94% Transmittance)

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### Electrical Characteristics STC

	STU- PERCB -B-295	STU- PERCB -B-300	STU- PERCB -B-305
Average Power	295w	300w	305w
Max Module Efficiency (%)	18.1%	18.4%	18.7%
Voltage at Max power (Vmp)	33.3V	33.6V	33.8V
Current at Max power (Imp)	8.9A	9.0A	9.0A
Open Circuit Voltage (Voc)	39.8V	39.9V	39.9V
Short Circuit Current (Isc)	9.4A	9.4A	9.5A
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/m<sup>2</sup>, module temperature 25 °C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

### NOCT

	295w	300w	305w
Max. Power at NOCT (Pmax)	212.6w	215.4w	219.4w
Voltage Max. Power (Vmp)	30.4V	30.6V	30.9V
Current Max. Power (Imp)	7.0A	7.1A	7.2A
Open Circuit Voltage (Voc)*	36.7V	37.0V	37.2V
Short Circuit Current (Isc)*	7.4A	7.5A	7.6A

NOCT: 800 W/m<sup>2</sup> 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

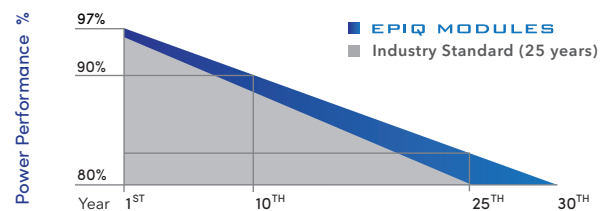
Nominal Operating Cell Temp. (NOCT)	45.22°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	+0.043 %/°C

NOCT: 800 W/m<sup>2</sup> 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

273.6w | 278.2w | 282.8w

### Warrantied Power Performance for 30 Years



### Packing Configuration

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

