

QUANTUM

Series 300

60 CELL HETEROJUNCTION (BI-FACIAL) SMARTWIRE SOLAR MODULE



SOLARTECH
UNIVERSAL



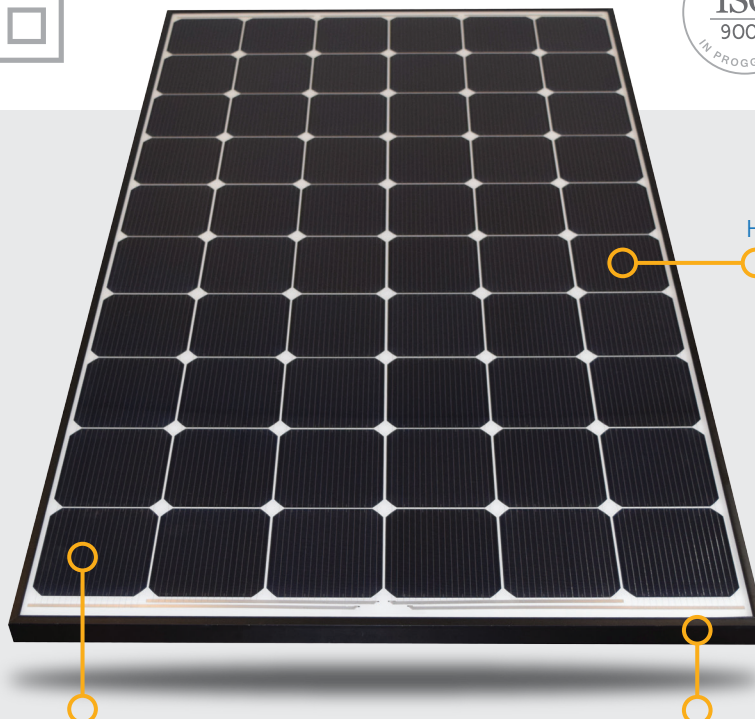
CERTIFICATIONS:

IEC61215

IEC61730

UL1703

Conformity to CE



Heterojunction (Bi-facial)

Busbar-less cells



SmartWire Technology lessens the effects of micro-fractures and shading

Beautifully designed anodized aluminum frame (Space Black or Metallic Silver)

A+ A+ A+

Highest rated solar panel flasher in the industry

The national solar UL / TUV testing association



SMART FEATURES



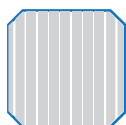
Module Efficiency

Up to 18.4% is achieved through advanced module and cell technology.



Near-zero (LID) and (PID)

Light Induced Degradation (LID)
Potential Induced Degradation (PID)
Industry average is 5% LID



SmartWire Technology

SWT mitigates the impact of cracked cells by increasing the number of current collection pathways.



Dual IP65 / IP67 Rated Junction Box

High performance, wind driven water and submerging resistance allows for long-term system reliability connection



Snow and Wind Prepared

Developed and certified to withstand the biggest snow and wind loads.
(Expected 5400 Pa and 3800 Pa)

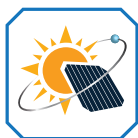


Excellent low-light conditions

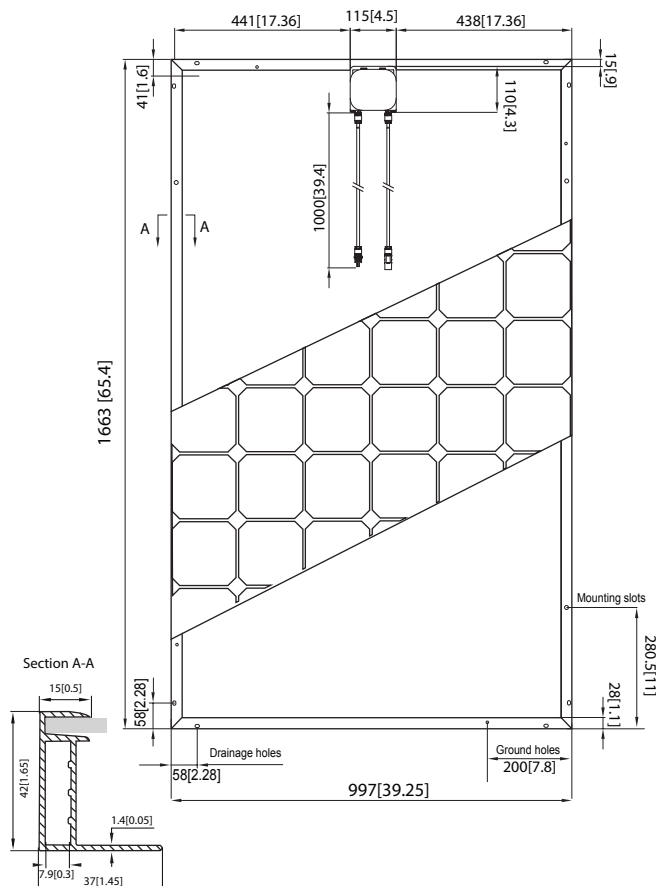
Excellent performance under low-light conditions due to reduced shading from the removal of bus bars from cells.

Data is based on initial test results as supplied by TUV Rheinland & SUPSI, 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 here at any time without notice.
Assembled in the US with domestic and imported parts

QS (300)60 REV2015A



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Mechanical Characteristics

Laminate Structure	Glass / TPO / Cells / TPO / Backsheet
Weight	Approx. 18 kg [40lbs]
Cell Type [mm]	156x156 Heterojunction (Bi-facial) Cell
Cell connection	60 cells (serial)
(Electrical) Junction Box	3 bypass (Tyco) IP65/IP67
(Electrical) Connection Cable	Tyco Solar 4mm ² (1 m length each)
Electrical Connectors	Tyco PV4
Dimensions	997 x 1663 x 42mm [39.25 x 65.4 x 1.65]
Glass Thickness	3.2mm [.125] tempered anti-reflec- tive solar glass

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Electrical Characteristics STC

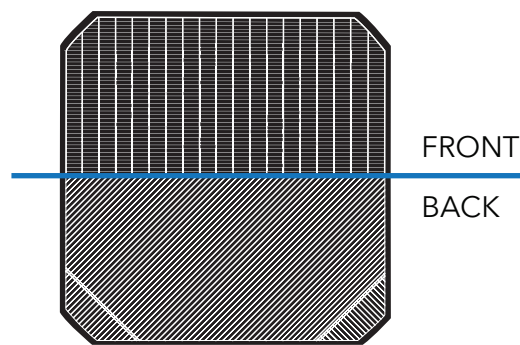
STU 300-HJT

Average Power	300W
Module Efficiency (%)	18.4%
Voltage at Max power (Vmp)	35.7V
Current at Max power (Imp)	8.4A
Open Circuit Voltage (Voc)	44.4V
Short Circuit Current (Isc)	9.8A
Operating Module Temperature	-40°C → 85°C
Maximum System Voltage	1000V DC (IEC + UL)
Maximum Series Fuse Rating	20A
Power Tolerance	± 3%

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%

Temperature Characteristics

Temperature Coefficient of Pmax	-0.2596 %/°C
Temperature Coefficient of Voc	-0.2387 %/°C
Temperature Coefficient of Isc	+0.0391 %/°C



Quantum Series 300 (Bi-facial)

Packing Configuration

Container	20' GP	53' Trailer
Pieces per pallet	23	23
Pallets per container	12	34
Pieces per container	276	782

