

QUANTUM SERIES 300



SOLARTECH
UNIVERSAL

60 CELL HETEROJUNCTION (BI-FACIAL) SMARTWIRE SOLAR MODULE



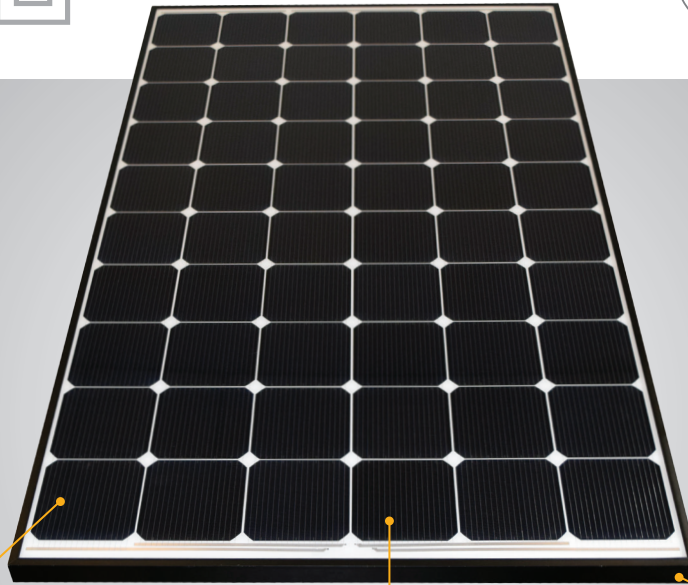
CERTIFICATIONS:

IEC61215

IEC61730

UL1703

Conformity to CE



SmartWire Technology lessens the effects of micro-fractures and shading

Heterojunction (Bi-facial)
Busbar-less cells

Anodized aluminum frame
(Space Black or Metallic Silver)

A+ A+ A+

Highest rated solar module flasher in the industry

The national solar UL / TUV testing association

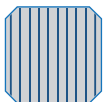


SMART FEATURES



Superior Energy Production

Module efficiency of 18.4% achieved by utilizing the most advanced technology in the solar industry.



SmartWire Technology (SWT)

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



Advanced HJT Technology

A specialized cell that improves the module efficiency by collecting energy from both sides of the cell.



Exceptional at low-light Conditions

The round shape of SmartWire reduces the wire shading by 25% and introduces a light trapping effect.



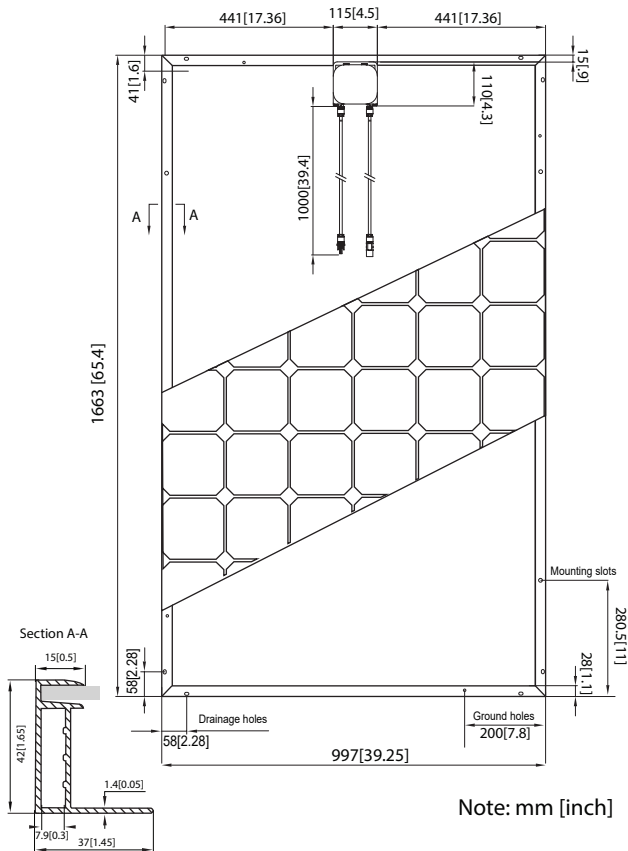
Remarkable Connection Durability

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



Industry Leading Warranty

HJT technology, based on n-type silicon, is immune to PID & LID effect.



Mechanical Characteristics

Laminate Structure	Glass / TPO / Cells / TPO / Backsheet
Weight	Approx. 18 kg [40lbs]
Cell Type [mm]	156 x156 Heterojunction (Bi-facial) Cell
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 [1.25] Anti-reflective tempered solar glass (94% Transmittance)

1800 President Barack Obama Highway
 Riviera Beach, FL 33404

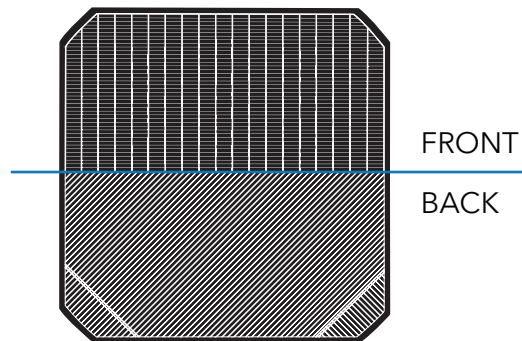
Phone: (561) 440-8000
 Fax: (561) 503-4141

info@solartechuniversal.com
 www.solartechuniversal.com

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 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%

Temperature Characteristics	
Temperature Coefficient of Pmax	-0.3439%/°C
Temperature Coefficient of Voc	-0.2596%/°C
Temperature Coefficient of Isc	+0.0447 %/°C
Maximum Power at PTC	273.3W



Quantum Series 300 (Bi-facial)

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

