QUANTUM SERIES 300

60 CELL HETEROJUNCTION (BI-FACIAL) SMARTWIRE SOLAR MODULE

SOLARTECH UNIVERSAL

CERTIFICATIONS:
IEC61215
IEC61730
UL1703
Conformity to CE

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 outrivals 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.

USA

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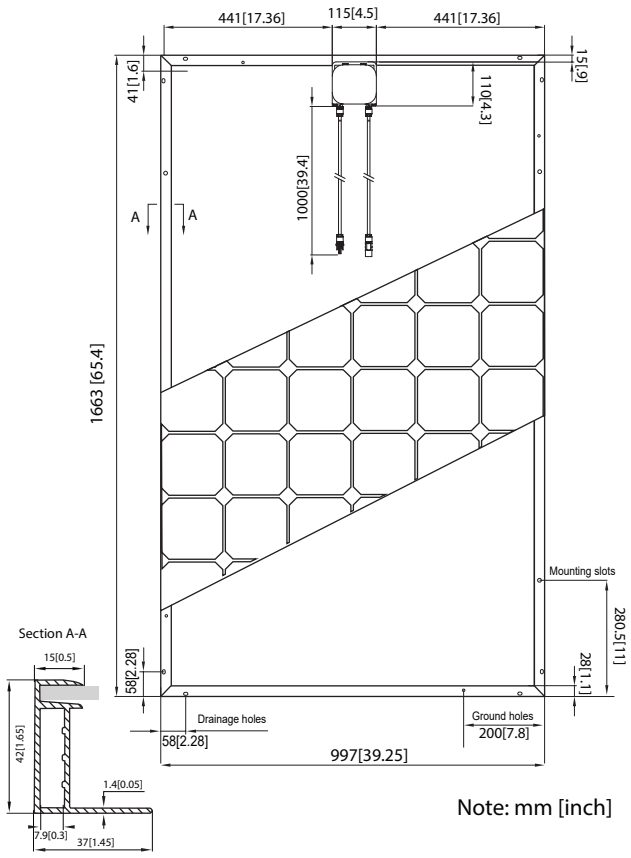


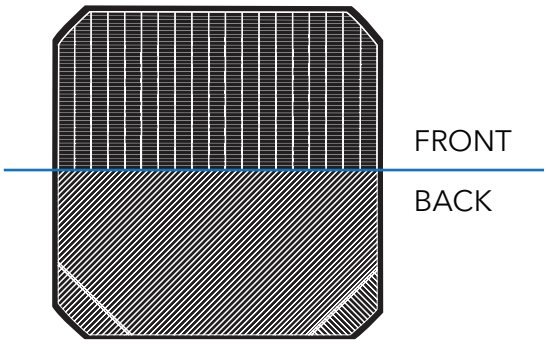
Note: mm [inch]

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

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 4mm² (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)



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

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