Triex **T-Series**





An evolution of Silevo's proprietary Triex[™] hybrid technology, T-Series thin-film modules optimize emitter performance to enable **High Efficiency**, **Exceptional Energy Harvest**, and **Manufacturing Excellence** to deliver maximum return on your solar investment.





18.5% = Superior Efficiency

Amorphous silicon combined with tunneling oxide thinfilm layers provides higher open circuit voltage enabling higher module efficiencies up to 18.5%.



-0.27% /°C = More Energy Output

A low temperature coefficient coupled with improved R-shunt performance boosts energy capture in high temperature and low light conditions.

TRIEX T310 WATT 18.5%

25 year linear power warranty &10 year product warranty

ISO 9001 certified production facility IEC 61646, IEC 61730



6 Steps = Manufacturing Excellence

Industry's first hybrid device structure incorporates an advanced TCO layer, premium materials and 6 core automated manufacturing steps to deliver high value and performance.

Silevo's Triex T-Series solar modules incorporate 96 improved hybrid tunneling junction solar cells and are certified under IEC thin-film standards. Designed to meet the dynamic weather conditions in the European market, T-Series modules can be deployed in residential, commercial, and ground mount utility scale solar projects. Available with either silver or black frame option.

IMPROVED LOW LIGHT RESPONSE





Triex[™] T310 Watt, 18.5% Module

Electrical Data (at STC)

Note: STC: Air Mass 1.5, Irradiance 1000W/m2, cell temperature 25°C

	T295	T300	T305	T310
Maximum Power (Pmax) [W]	295	300	305	310
Max Power Voltage (Vmp) [V]	56.6	57	57.5	57.9
Max Power Current (Imp) [A]	5.23	5.27	5.32	5.36
Open Circuit Voltage (Voc) [V]	69.2	69.5	69.8	70.1
Short Circuit Current (Isc) [A]	5.62	5.65	5.68	5.71
Output Power Tolerance [Wp]	0/+5	0/+5	0/+5	0/+5
Total Area Module Efficiency	17.7%	17.9%	18.3%	18.5%

Electrical Data (at NOTC)

Note: NOTC: Air Mass 1.5, Irradiance 800W/m ² , Air temperature 20°C, Wind speed 1m/s				
Maximum Power (Pmax) [W]	213.1	216.3	220.3	223.5
Max Power Voltage (Vmp) [V]	52.4	52.7	53.2	53.6
Max Power Current (Imp) [A]	4.13	4.16	4.20	4.24
Open Circuit Voltage (Voc) [V]	64.3	64.5	64.8	65.1
Short Circuit Current (Isc) [A]	4.50	4.52	4.55	4.57

Electrical Data (at Low Irradiance)

Note: Low irradiance: Air Mass 1.5, Irradiance 200W/m², cell temperature 25°C				
Maximum Power (Pmax) [W]	57.2	57.8	58.3	58.9
Max Power Voltage (Vmp) [V]	53.7	53.9	54.1	54.4
Max Power Current (Imp) [A]	1.07	1.07	1.08	1.08
Open Circuit Voltage (Voc) [V]	65.0	65.3	65.6	65.9
Short Circuit Current (Isc) [A]	1.15	1.15	1.16	1.16

I-V Curve T310



Certifications

Certifications

Warranty

Warranty	

Performance Guarantee

10 Year Limited Product Warranty 25 Year linear (please refer to warranty for details)

IEC61646, IEC61730

Temperature Ratings	
Temperature (NOCT) [C]	46+/-2
Temperature Coefficient Pmax [%/°C]	-0.27
Temperature Coefficient Voc [%/°C]	-0.262
Temperature Coefficient Isc [%/°C]	0.04
Maximum Ratings	
Maximum System Voltage [V]	1000V DC (IEC) / 600V DC (UL)
Maximum Fuse Rating	12A
Temperature	Negative 40°C to Positive 85°C
Mechanical Data	
Solar Cells	96 Triex 125mm x 125mm cells
Dimensions	1586mm x 1056mm x 40mm
Weight	19 kgs
Front Glass	3.2mm High Transmission Tempered
Front Load Test (Snow)	5400 Pa
Rear Static Load Test (Wind)	2400 Pa
Junction Box	IP65 rated with 4 bypass diodes
Output Cables	1000mm / MC4 Connectors
Frame	Silver Aluminum (Black Frame Option)
Packaging Data	
Modules per Pallet	25

Modules per Pallet

wouldes per Fallet	20
Modules per 40' GP Container	350
Modules per 40' HQ Container	700

Dimensions

