Triex™ T-Series
SleekBlack

silevo

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

17.9% = Superior Efficiency

Amorphous silicon combined with tunneling oxide thin-film layers provides higher open circuit voltage enabling higher module efficiencies up to 17.9%.

-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.

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.

TRIEX™ SLEEKBLACK T300 WATT 17.9%

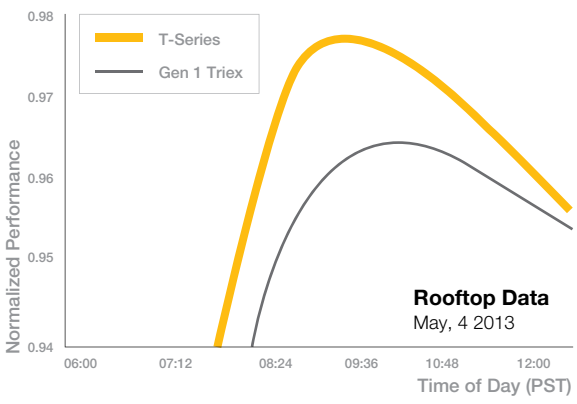
Triex SleekBlack are the perfect choice for solar projects where exceptional performance and aesthetics are required. Built with a black frame and black backsheet, they offer your project a sleek appearance.

25 year linear power warranty &
10 year product warranty

ISO 9001 & 14001 certified production facility
IEC 61646, IEC 61730
Salt Mist test severity Level 1 certified.

Silevo's Triex T-Series SleekBlack 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.

IMPROVED LOW LIGHT RESPONSE



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Triex™ T300 Watt SleekBlack, 17.9% Module

Electrical Data (at STC)

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

	T285 SleekBlack	T290 SleekBlack	T295 SleekBlack	T300 SleekBlack
Maximum Power (Pmax) [W]	285	290	295	300
Max Power Voltage (Vmp) [V]	56.6	57.0	57.5	57.9
Max Power Current (Imp) [A]	5.03	5.07	5.12	5.17
Open Circuit Voltage (Voc) [V]	68.3	68.7	69.0	69.3
Short Circuit Current (Isc) [A]	5.40	5.43	5.46	5.49
Output Power Tolerance [Wp]	-5/+5	-5/+5	-5/+5	-5/+5
Total Area Module Efficiency	17.0%	17.3%	17.7%	17.9%

Electrical Data (at NOTC)

Note: NOTC: Air Mass 1.5, Irradiance 800W/m², Air temperature 20ºC, Wind speed 1m/s

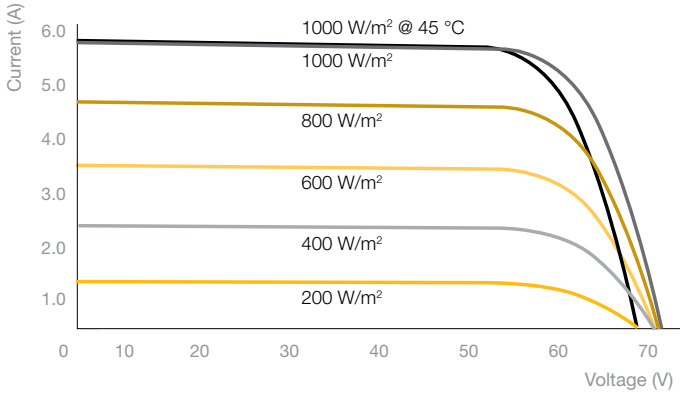
Maximum Power (Pmax) [W]	208.3	211.5	215.4	218.8
Max Power Voltage (Vmp) [V]	52.4	52.7	53.2	53.6
Max Power Current (Imp) [A]	3.98	4.01	4.05	4.08
Open Circuit Voltage (Voc) [V]	63.4	63.8	64.1	64.3
Short Circuit Current (Isc) [A]	4.32	4.35	4.37	4.39

Electrical Data (at Low Irradiance)

Note: Low irradiance: Air Mass 1.5, Irradiance 200W/m², cell temperature 25ºC

Maximum Power (Pmax) [W]	54.3	54.9	55.4	56.0
Max Power Voltage (Vmp) [V]	53.0	53.3	53.5	53.7
Max Power Current (Imp) [A]	1.02	1.03	1.04	1.04
Open Circuit Voltage (Voc) [V]	64.2	64.6	64.9	65.1
Short Circuit Current (Isc) [A]	1.10	1.11	1.11	1.12

I-V Curve T300 SleekBlack



Certifications

Certifications	IEC61646, IEC61730

Warranty

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

Temperature Ratings

Temperature (NOCT) [C]	46+/-2
Temperature Coefficient Pmax [%/ºC]	-0.27
Temperature Coefficient Voc [%/ºC]	-0.262
Temperature Coefficient Isc [%/ºC]	0.04

Maximum Ratings

Maximum System Voltage [V]	1000V DC (IEC) / 600V DC (UL)
Maximum Fuse Rating	12A
Temperature	Negative 40ºC to Positive 85ºC

Mechanical Data

Solar Cells	96 Triex 125mm x 125mm cells
Dimensions	1586mm x 1056mm x 40mm
Weight	19 kgs
Front Glass	ARC 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	Black Aluminum

Packaging Data

Modules per Pallet	25
Modules per 40' GP Container	350
Modules per 40' HQ Container	700

Dimensions