Elevation 4[™] Framed Solar Module

STO-140A / STO-145A / STO-150A / STO-155A





Superior Energy Yield

- Up to 10% more energy than crystalline silicon in most climates
- Industry leading temperature coefficient (-0.26%/°C) provides greater energy yield in most operating conditions
- Proprietary cell and circuit design minimizes impact of shade and debris CEC listed, PTC/STC ratio of 92.9%



Leading Performance and Reliability

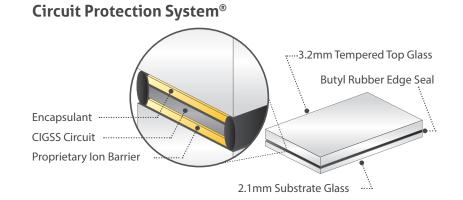
- Potential Induced Degradation (PID) resistant and free of Light Induced Degradation (LID) effects
- Designed and tested to survive harsh conditions



Certifications and Advanced Tests

- IEC 61646 1000V, IEC 61730 1000V, CE
- UL1703 1000V Class C Fire Rating (Class A Flame Spread), Fire Type 3
- PID Free, IEC 61701 Salt Mist (severity 6)
- ISO 9001:2008
- CSI Eligible (CA-USA), CEC Listed (Australia), OGPE (Puerto Rico)
- Restriction of Hazardous Substances (RoHS) compliant





Made in the USA

• All of Stion's modules are designed and manufactured in the United States under the highest quality standards



Reliable and Durable with Stion CPS®

Proprietary Circuit Protection System®

Moisture Ingress Protection

Dual Glass Durability

Resistant to effects of Potential Induced Degradation (PID)



STO-140A / STO-145A / STO-150A / STO-155A

Electrical Data*

Nominal Power, Pmax (W)	140	145	150	155	
Module Efficiency (%)	12.9%	13.3%	13.8%	14.3%	
Vmpp (V)	59.8	61	62.7	63.4	
Impp (A)	2.34	2.38	2.39	2.45	
Voc (V)	78.8	79.6	80.8	82	
lsc (A)	2.65	2.68	2.72	2.75	
Series Fuse Rating (A)	7				
Maximum System Voltage (V-dc)	1000 (UL & IEC)				
Temp. Coefficient (Pmpp)	-0.26%/°C				
Temp Coefficient (Voc)	-0.24%/°C				
Temp Coefficient (ISC)	0.004%/°C				
Factory Binning (W)	+ / - 2.5				
NOCT**	45.6°C				

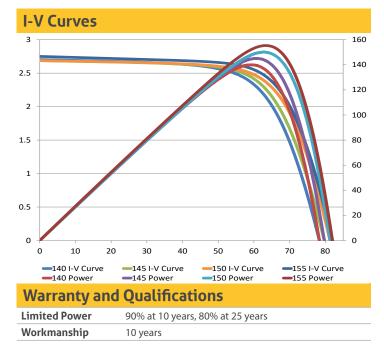
* Measured at Standard Testing Conditions (STC): 25° C, 1000 W/m2, AM 1.5 after factory light soaking. All ratings are \pm 10% unless noted otherwise.

*** Normal Operating Cell Temperatures (NOCT): 800 W/m2, 20°C air temperature, 1m/s wind speed

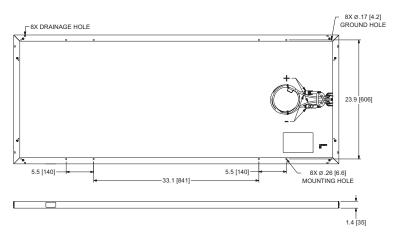
Relative efficiency reduction of maximum power from an irradiance of 1,000 W/m² to 200 W/m² at 25°C is approximately 7% with a standard deviation of 3%.

Normal Operating Cell Temperature Conditions

Nominal Power, Pmax (W)	106	110	114	118
Vmpp (V)	55.3	56.4	58	59.6
Impp (A)	1.92	1.95	1.96	1.98
Voc (V)	71.5	72.3	73.3	74.3
lsc (A)	2.19	2.22	2.25	2.28

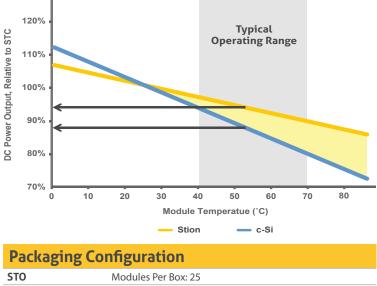


Dimensions Inches [mm]



Mechanical Data	
Width	25.8 in (656 mm)
Length	65.2 in (1656 mm)
Thickness	1.4 in (35.0 mm)
Weight	37.0 lbs (16.8 kg)
Total Area	11.68 ft ² (1.09 m ²)
Cable	PV Wire, 14 AWG Cable 39 3/8 in (1 m)
Connectors	Bizlink Sunbolts S418
Ј-Вох	IP 67 rated
Frame	Black Anodized Aluminum
Front Glass	3.2mm tempered with anti reflective coating
Back Glass	2.1mm annealed float
Mechanical / Wind Load	2400 Pa (50 psf)

Industry Leading Warm Temperature Performance



Modules Per 40' Container: 975

Caution! Read Safety & Installation Manual before handling, installing or operating Stion products. Specification included in this datasheet are subject to change without notice.