

Elevation 4™ Frameless Solar Module

STL-135A / STL-140A / STL-145A / STL-150A



Superior Energy Yield

- Up to 10% more energy than crystalline silicon in most climates
- Industry leading temperature coefficient ($-0.26\%/^{\circ}\text{C}$) 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

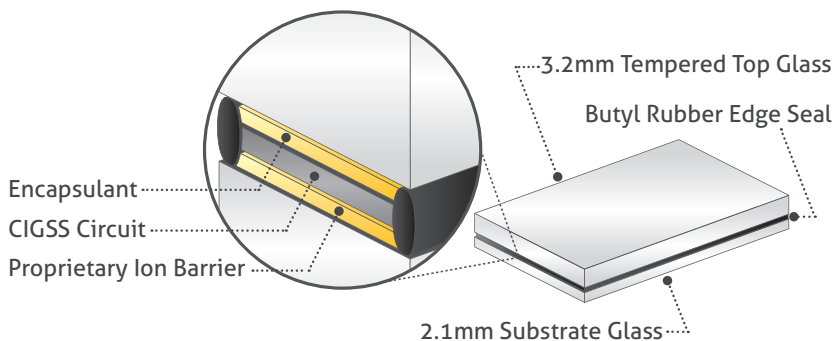


Certifications and Advanced Tests

- 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



Circuit Protection System®



Reliable and Durable with Stion CPS®

Proprietary Circuit Protection System®

Moisture Ingress Protection

Dual Glass Durability

Resistant to effects of Potential Induced Degradation (PID)



Made in the USA

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

UTICA™

www.utica.sg

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Electrical Data*

Nominal Power, P _{max} (W)	135	140	145	150
Module Efficiency (%)	12.6%	13.1%	13.5%	14.0%
V _{mpp} (V)	58.2	59.8	61	62.7
I _{mpp} (A)	2.32	2.34	2.38	2.39
V _{oc} (V)	77.4	78.8	79.6	80.8
I _{sc} (A)	2.62	2.65	2.68	2.72
Series Fuse Rating (A)	7			
Maximum System Voltage (V-dc)	1000 (UL & IEC)			
Temp. Coefficient (P _{mpp})	-0.26%/°C			
Temp Coefficient (V _{oc})	-0.24%/°C			
Temp Coefficient (I _{sc})	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 ± 10% unless noted otherwise.

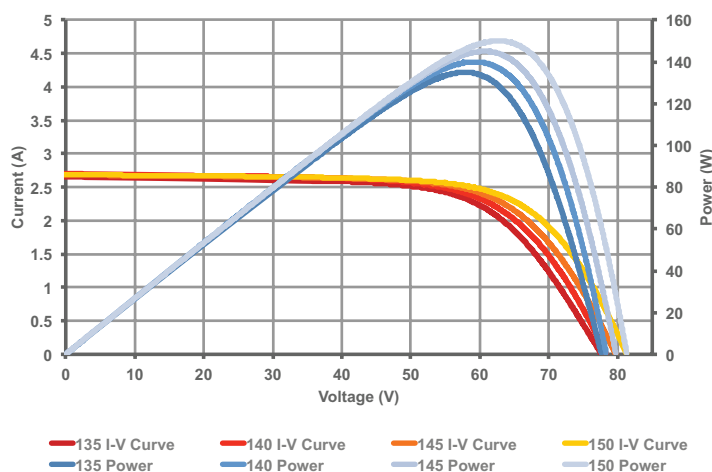
** Normal Operating Cell Temperatures (NOCT): 800 W/m², 20°C air temperature, 1m/s wind speed

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, P _{max} (W)	102	106	110	114
V _{mpp} (V)	53.8	55.3	56.4	58
I _{mpp} (A)	1.91	1.92	1.95	1.96
V _{oc} (V)	70.3	71.5	72.3	73.3
I _{sc} (A)	2.17	2.19	2.22	2.25

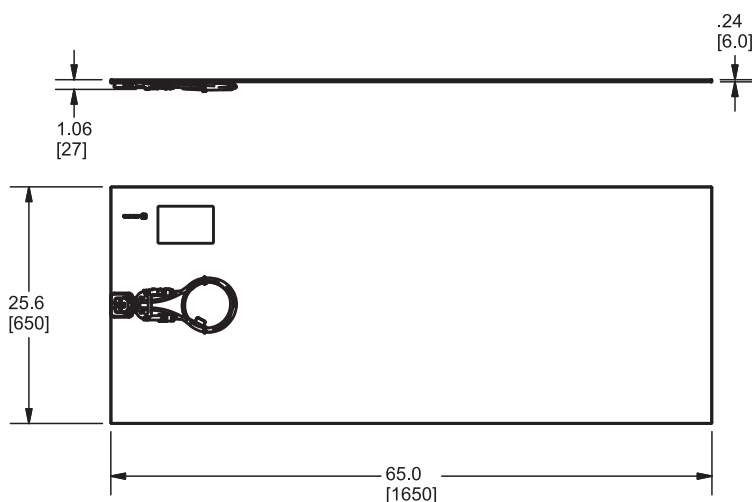
I-V Curves



Warranty and Qualifications

Limited Power	90% at 10 years, 80% at 25 years
Workmanship	10 years

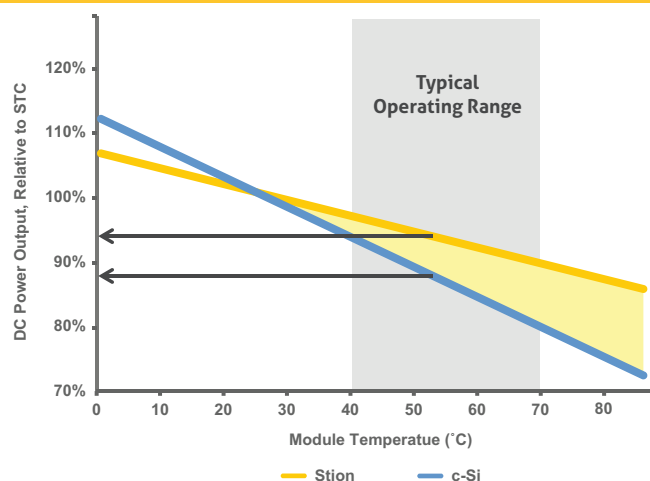
Dimensions Inches [mm]



Mechanical Data

Width	25.6 in (650mm)
Length	65.0 in (1650mm)
Thickness	0.24 in (6.0mm)
Weight	33.0 lbs (15kg)
Total Area	11.56 ft ² (1.07m ²)
Cable	PV Wire, 14 AWG Cable 39 3/8 in (1m)
Connectors	MC-4 type
J-Box	IP 67 rated
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



Packaging Configuration

STL	Modules Per Box: 50
	Modules Per 40' Container: 1200



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