



NovaSolar Technologies

Clean, Sustainable energy from the Sun, Now and for our Children's future

Our Products & Services

- Turnkey PV power solutions for utility scale power plants, commercial buildings and parking structures
- Proprietary PV module design made from proven amorphous silicon technology
- RoHs compliant (*non toxic*)
- Modules are manufactured on a **single sheet of tempered glass** which provides for significantly less material cost and product weight compared to traditional PV technologies
- With the use of proprietary moisture barrier and adhesion layer combination NovaSolar has demonstrated absence of power loss due to environmental conditioning
- Polymer back coat provides improved mechanical and dielectric protection
- The frameless module design provides advantages in cost, edge corrosion resistance, and improved air cooling
- Ideal for hot, cloudy, or hazy locations
- Eco friendly mounting systems



NSDJ-1 Series PV Module

Thin Film Solar Products for PV Power



Our Value Proposition

NovaSolar develops all of the core technologies and processes needed to design and build utility scale solar farms. By taking advantage of the synergies of vertical integration, we are able to build solar farms for large-scale utilities and commercial roof tops at a breakthrough cost that is competitive with other means of generating daytime, peak demand electricity.

We have selected thin film multi-junction amorphous Silicon technology for our products. Amorphous Silicon modules have the lowest cost of materials and will be the cost leader compared with other PV technology. The science of thin film silicon is well developed and the materials are RoHs compliant (non toxic).



NovaSolar Technologies

Clean, Sustainable energy from the Sun, Now and for our Children's future

Electrical Specifications

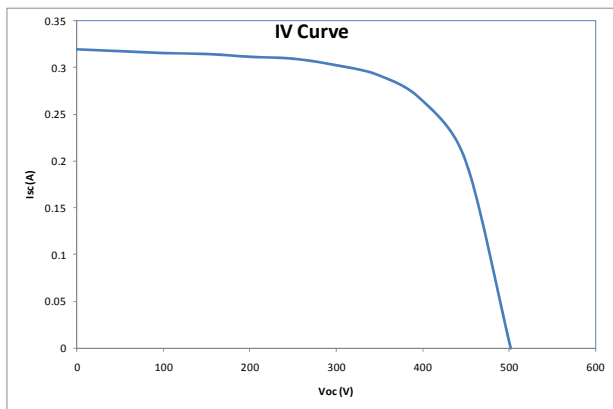
At Standard Conditions (STC) – 1000 W/m² plane-of-array irradiance, AM 1.5 solar spectrum, 25°C cell temperature

P _{mp} (Power + / - x %)	103W
V _{oc} (Open Circuit Voltage)	502V
I _{sc} (Short Circuit Current)	0.32A
V _{mp} (Max Power Voltage)	426V
I _{mp} (Max Power Current)	0.26A
Fill Factor (FF)	0.68
Panel Efficiency (Active Area)	8%
Maximum Source Circuit Fuse Rating	0.7A
V _{oc} Temperature Coefficient	-0.28%/°C
I _{sc} Temperature Coefficient	0.09 %/°C
P _{mp} Temperature Coefficient	-0.19%/°C
Maximum System Voltage	600V DC

Mechanical Specifications

Length	1.525m
Width	1.0m
Depth	0.024m
Weight	15kg
NOCT	45°C
Wire Type and Size	14AWG USE II
Connector Type	Outdoor rated, positive feedback connection
Cell Type	a-Si/a-Si
Cover Material	Tempered Glass
Back Sheet	Polymeric
Sub-Panel Configuration	3 modules in series on metal supports
Operating Module Temperature	-40°C to 90°C
UL Certified Design Load	259 kPa
Snow Loads	up to 5400Pa
Wind loads	up to 2400Pa

Typical Sub-Panel IV Curve



Warranty :

Power output warranty 90% of the nominal output power rating during the first 10 years and 80% during 20 years subject to warranty terms & conditions.

Dimensions

