

Polycrystalline solar modules

36 Cell Modules CS140, CS135, CS130, CS125, CS120, CS115

Made in Canada

EVA Encapsulation:

Decades of experience show clear encapsulated insulation enhances solar cell performance and provides proven weathering protection.

Anti-Reflective Coating:

Increases the efficiency of our modules by reducing the quantity of light that is reflected away from the module.

Reliable Outside Bussing:

Our proven module design puts bus bars outside frame and cell areas, improving module reliability.

Anodized Aluminum Frames:

Our corrosion resistant frames are constructed to withstand wind speeds in excess of 200Km/h (125 mph) in typical ground mounted applications.

Tempered Low Iron Glass:

For our crystalline product, tempered low iron glass provides both better impact resistance and better light transmission, allowing the generation of more electricity.

Performance and Reliability

Centennial Solar products are designed and constructed to provide high performance and reliability. We constantly improve our products to ensure product performance and reliability.

Features

- High efficiency and reliability for diverse grid and off-grid applications
- Superior energy generating kWh/ kWp performance

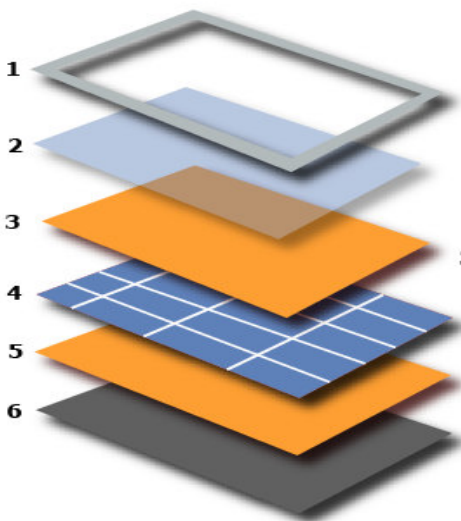
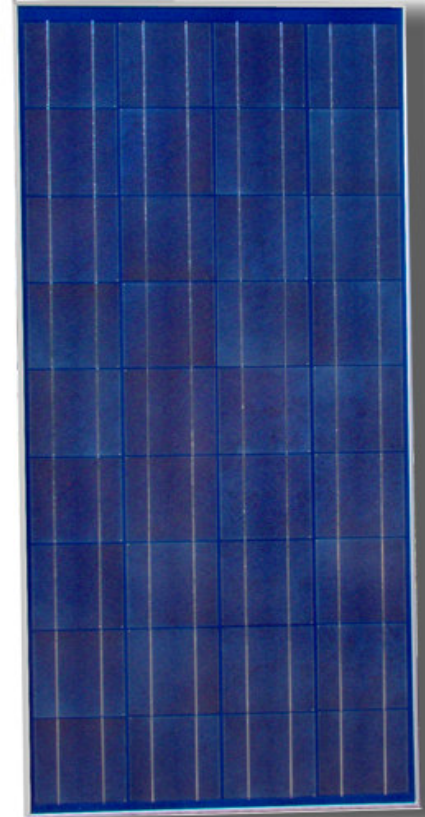
Applications

- Building Integration
- Solar Power Packs and Plants
- Solar Pumping Systems
- All Power Requirement



Laminate Options

Centennial Solar also supplies laminates, enabling easy integration of products into third party solar electric systems or directly into building structures.



Constructive Characteristics

1 Frame

Of anodized aluminum, pre-drilled for quick and easy assembly.

2 Glass

Tempered, high transmission, low iron anti-reflective and thickness of 3.2mm.

3&5 EVA

(Ethylene and vinyl acetate) Enclosing material.

4 Cells

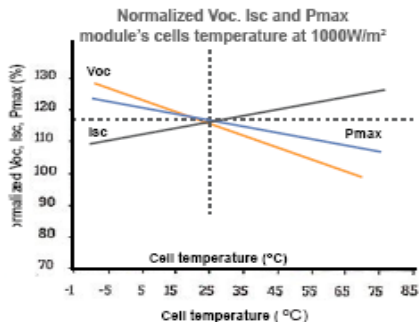
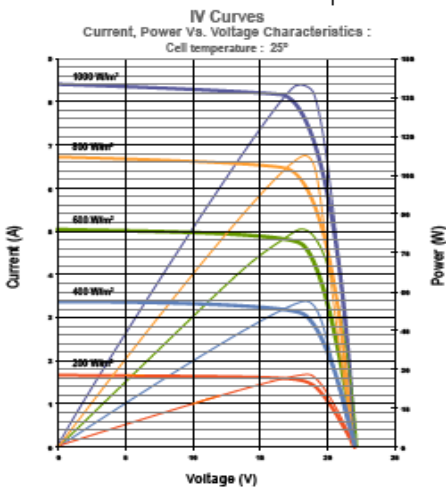
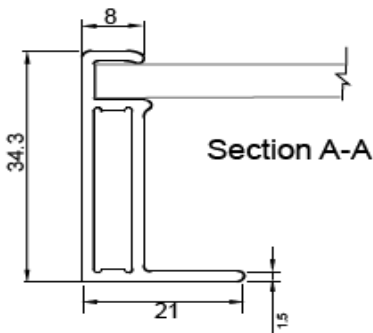
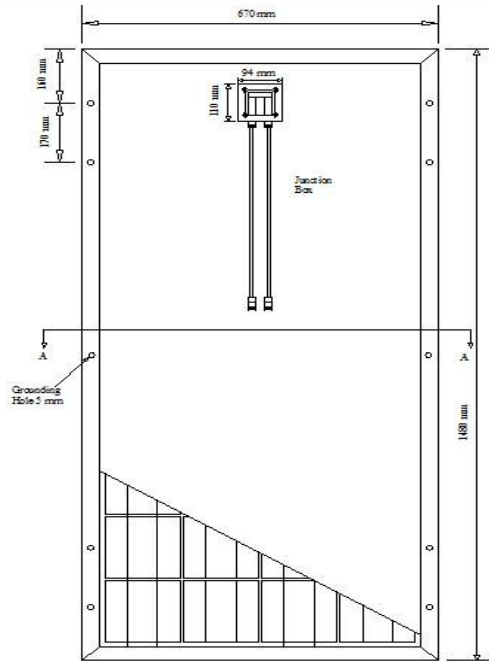
Polycrystalline cells with serial connection, textured to make best use of solar irradiance.

6 Tedlar

Electrical insulation, protecting of rear part of module.

Guarantees :

- The materials making the photovoltaics modules and any possible defects due to the manufacturing process for 7 years.
- A power provided by the photovoltaic module of at least 90% of the minimum output power for 10 years.
- A power provided by the photovoltaic module of at least 80% of the minimum output power for 25 years.
- Measured under Standard test conditions (STC=1000W/m², 25°C, AM 1.5)
- The electric characteristics of each photovoltaic module are individually monitored and the results are left at the disposal of the customer.



Specifications:						
Cell type and size	Polycrystalline 156mmx156mm					
No. of cells and connections	4 x 9 in series (36)					
Dimension of module (mm)	1480mm x 670mm x 35mm					
Weight (kg)	13kg					
Characteristics:						
Model	CS 140	CS 135	CS 130	CS 125	CS 120	CS 115
Open circuit voltage (Voc)	22.01V	22.01V	22.01V	22.01V	22.01V	22.01V
Optimum operating voltage (Vmp)	17.89V	17.89V	17.89V	17.89V	17.89V	17.89V
Short circuit current (Isc)	8.37A	8.07A	7.77A	7.48A	7.18A	6.88A
Optimum operating current (Imp)	7.82A	7.55A	7.27A	6.99A	6.71A	6.43A
Rated power (Pmax)	140W	135W	130W	125W	120W	115W
Module Efficiency	14.11%	13.61%	13.11%	12.60%	12.10%	11.59%
Type of output Terminal	Junction Box IP65 with 2 bypass diodes					
Cable lengths	0.9M long, TUV certified, 4mm ²					
Connection	Type MC 3					
Certificates	IEC61215 Ed-II					
Limits:						
Operating temperature	-40 to +90°C					
Maximum system voltage	1000V					
Temperature and coefficients:						
Nominal Operation Cell Temperature	46°C					
Current temperature coefficient	0.05%/°K					
Voltage Temperature coefficient	-0.33%/°K					
Power temperature coefficient	-0.43%/°K					
Note: The specifications are subject to change without notice .						

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