



## CS5P-200/210/220/230/240

CS5P is uniquely designed to provide high-power output for both on-grid and off-grid solar power plants. It is also tailored for people looking for maximum power output in a very limited space on commercial, industrial and residential roof-top solar power systems.

CSI's meticulous design and production techniques ensure a high-yield, long-term performance for every module produced. Our rigorous quality control and in-house testing facilities ensure CSI modules meet the highest quality standards possible.



## KEY FEATURES

- **96 High-Efficiency Polycrystalline Solar Cells**
- **Special Aluminum Frame Design** - The specially treated frame aluminum substantially increases module endurance against high winds and snow load.
- **Reinforced Solar Glass** - The high-transparency low-iron tempered glass allows maximum light permeability while enhancing stiffness and impact resistance.
- **Advanced Cell Encapsulation** - The interconnected cells are embedded in ultra transparent EVA with multilayer backsheets for additional weather protection.
- **Optimized Module Surface Area** - The distance between the frame edge and the cell circuitry is calculated according to the electrical output optimization.

## APPLICATIONS

- Large on and off-grid solar power stations
- Commercial / industrial building roof-top systems
- Residential roof-top systems
- Rural electrification
- Other industrial and commercial applications

## CERTIFICATIONS

### Module Certificates

- IEC 61215, TUV Safety Class II, UL 1703, CE



### Factory Certificates

- ISO 9001:2000, ISO/TS 16949:2002, QC 080000



\* IEC 61215 Certified Models: CS5P-240P, CS5P-235P, CS5P-230P, CS5P-225P, CS5P-220P, CS5P-215P, CS5P-210P, CS5P-205P

\* TUV Safety Class II Certified Models: CS5P-240P, CS5P-230P, CS5P-220P, CS5P-210P, CS5P-200P, CS5P-240M, CS5P-230M, CS5P-220M, CS5P-210M, CS5P-200M

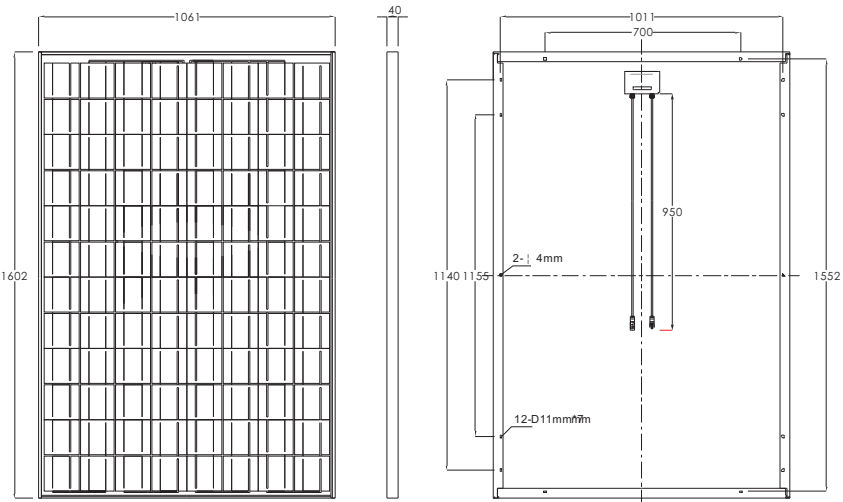
\* UL 1703 Certified Models: CS5P-240P, CS5P-235P, CS5P-230P, CS5P-225P, CS5P-220P, CS5P-215P, CS5P-210P, CS5P-205P, CS5P-200P, CS5P-240M, CS5P-235M, CS5P-230M, CS5P-225M, CS5P-220M, CS5P-215M, CS5P-210M, CS5P-205M, CS5P-200M

## LIMITED WARRANTY

- **25 years limited warranty on power output**  
90% power output assurance for 10 years, and 80% power output assurance for 25 years .  
Please refer to warranty statement for warranty conditions in detail.

# CS5P-200/210/220/230/240

## Mechanical Specifications



Dimensions		
Length*Width*Depth	mm (in)	1602 x 1061 x 40 (63.1 x 41.8 x 1.6)
Weight	kg (lbs)	20.0 (44.1)

Cells	
Cell Material	Polycrystalline
Number of Cells	96

## Electrical Characteristics

### Electrical Performance

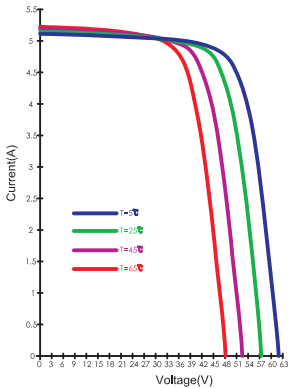
Under Standard Test Conditions (STC) of irradiance of 1000W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

		CS5P-200	CS5P-210	CS5P-220	CS5P-230	CS5P-240
Maximum Power	P <sub>max</sub>	200W	210W	220W	230W	240W
Voltage at Maximum Power	V <sub>mp</sub>	46.4V	46.6V	46.9V	47.5V	48.1V
Current at Maximum Power	I <sub>mp</sub>	4.31A	4.51A	4.69A	4.84A	4.99A
Open Circuit Voltage	V <sub>oc</sub>	57.4V	57.9V	58.4V	58.8V	59.3V
Short Circuit Current	I <sub>sc</sub>	4.78A	4.94A	5.10A	5.25A	5.40A
Maximum System Voltage		1,000V(IEC)/600V(UL)				
Temperature Coefficient	Voltage (V <sub>oc</sub> )	-0.35 %/°C				
	Current (I <sub>sc</sub> )	0.060 %/°C				

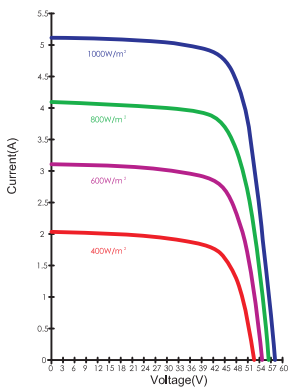
\*NOCT (Normal Operating Cell Temperature): 45°C

\*\*Module power tolerance: ±5W (approx. ±2.5%)

I-V Curves Under Different Temperatures, 1000W/m<sup>2</sup>  
CS5P-220



I-V Curves Under Different Irradiances ; AM 1.5 ; 25°C  
CS5P-220



\*Specifications included in this datasheet are subject to change without prior notice.



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