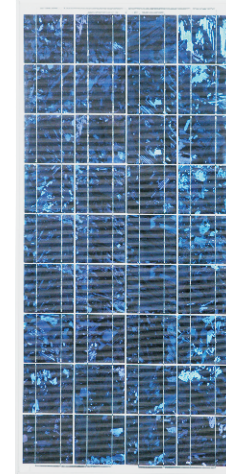


# CSI Canadian Solar Inc.

## CS5C-70/80/90

CS5C is specially designed for powering remote telecommunication equipment, information monitoring systems and other industrial equipments in off-grid areas or when stand alone power system is more cost effective.

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

- **36 High-Efficiency 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

- Power supply for remote telecommunication equipment
- Monitoring systems for the oil & gas industry
- Traffic, security, environment, and other remote monitoring and signaling systems
- Water pumping systems
- Rural electrification
- Small home power systems
- 12V and 24V battery charging system
- Other industrial and consumer 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: CS5C-85P, CS5C-80P, CS5C-75P

\* TUV Safety Class II Certified Models: CS5C-80P

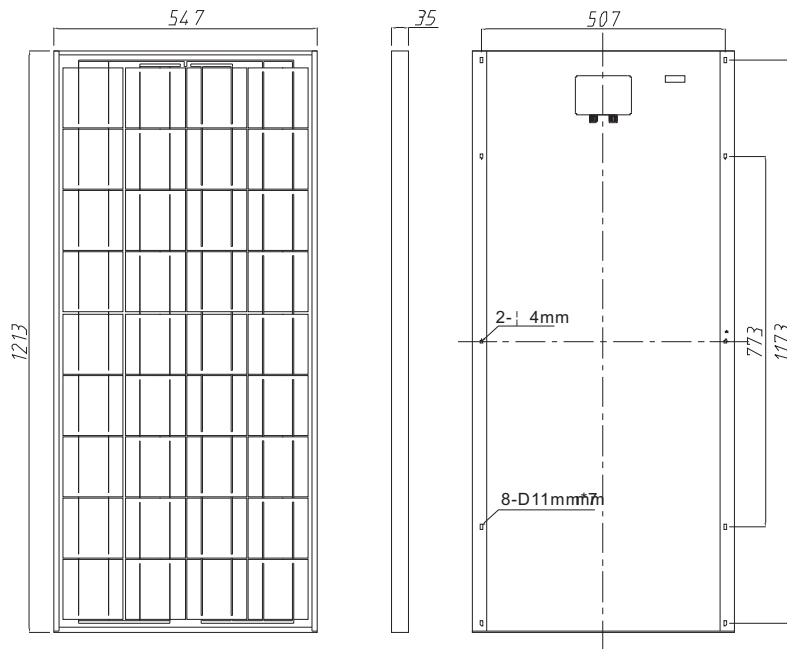
\* UL 1703 Certified Models: CS5C-90, CS5C-85, CS5C-80, CS5C-75, CS5C-70, CS5C-65, CS5C-60, CS5C-55, CS5C-50

### 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.

# CS5C-70/80/90

## Mechanical Specifications



Dimensions		
Length*Width*Depth	mm	1213 x 547 x 35
	(in)	(47.8 x 21.5 x 1.4)
Weight	kg (lbs)	8.0 (17.6)

Cells	
Cell Material	Mono or Polycrystalline
Number of Cells	36

## 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

		CS5C-70	CS5C-80	CS5C-90
Maximum Power	P <sub>max</sub>	70W	80W	90W
Voltage at Maximum Power	V <sub>mp</sub>	17.4V	17.5V	18.0V
Current at Maximum Power	I <sub>mp</sub>	4.03A	4.58A	4.99A
Open Circuit Voltage	V <sub>oc</sub>	21.5V	21.8V	22.2V
Short Circuit Current	I <sub>sc</sub>	4.49A	4.97A	5.40A
Maximum System Voltage		600V(UL)/1000V(IEC)		
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. ±6%)

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



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