



## **DISTRIBUTED SOLAR POWER SYSTEM**

Canadian Solar offers distributed solar power systems for residential house owners and commercial business owners around the world. Canadian Solar PV system solutions can be installed on rooftops as well as ground mounted.

**Canadian Solar PV system solutions have the following packages with a wide range of power systems:**

700W, 3kW, 5kW, 10kW, 20kW, 50kW and 100kW etc..

**Canadian Solar PV system solution includes the following key components:**

PV Modules  
Mounting System  
Inverter  
Distribution Box



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**CANADIAN SOLAR INC.** is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 33 GW deployed around the world since 2001, Canadian Solar Inc. is one of the most bankable solar companies worldwide.

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**CANADIAN SOLAR INC.**

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## FUNCTIONS OF THE MAIN COMPONENTS:

### 1. Solar Module

Convert sunlight into electric energy.

### 2. Mounting System

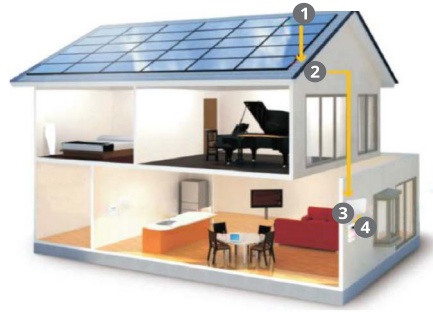
Fix solar panels on surfaces like roofs, building facades, or the ground, etc.

### 3. Inverter

Convert DC solar energy power into AC power.

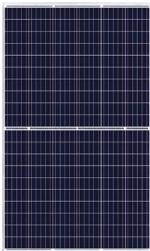
### 4. Distribution Box / Cabinet

Provides safety protection for DC and AC circuits, such as overload, over voltage, over current, short circuit and lightning protection, etc.



## HIGH EFFICIENCY PV MODULES

Power Range: 290 / 295 / 300 W



**Module Efficiency:** up to 18.05%  
**Dimensions:** 1675 x 992 x 35 mm

- Low power loss in cell connection
- Low temperature coefficient (Pmax)
- Lower hot spot temperature
- Better shading tolerance

Power Range: 350 / 355 / 360 W



**Module Efficiency:** up to 18.15%  
**Dimensions:** 2000 x 992 x 35 mm

- Low power loss in cell connection
- Low temperature coefficient (Pmax)
- Lower hot spot temperature
- Better shading tolerance



### INVERTER

- Efficiency up to 98.6 %
- IP 65 enclosure
- Advanced MPPT automatic tracking
- Inbuilt protection for overvoltage islanding, overload, overheating, etc.
- Communication modes like 485, WiFi, GPRS etc..



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## TYPICAL SYSTEM CONFIGURATION: RESIDENTIAL

<b>System Model</b>	<b>CS0.7K</b>	<b>CS1.5K</b>	<b>CS3K</b>	<b>CS5K</b>	<b>CS10K</b>	<b>CS20K</b>	<b>CS25K</b>	
<b>System Capacity</b>	700W	1.5kW	3kW	5kW	10kW	20kW	25kW	
<b>Power Generation in 1st Year*(kWh)</b>	1093	2187	4390	6660	13250	26609	32725	
<b>Solar module</b>	<b>Power Output</b>	290 / 295 / 300 W						
	<b>Quantity</b>	3pcs	6pcs	12pcs	18pcs	36pcs	72pcs	90pcs
<b>Solar Inverter</b>	<b>Power (AC)</b>	700W	1.5kW	3kW	5kW	10kW	20kW	25kW
	<b>Communication</b>	Wifi (Default) or GPRS (Optional, SIM card is not available.)						
	<b>Monitoring system</b>	Mobile APP and PC web.						
<b>Solar Mounting system</b>	Aluminum (AL6005-T5) and stainless steel.							
<b>Distribution Box</b>	<b>DC junction box</b>	Key features such as outdoor box,DC fuse,DC MCB,DC SPD,etc.						
	<b>AC junction box</b>	Key features such as outdoor box,AC switch or MCB, AC SPD,etc.						
<b>Solar cable</b>	2 Pfg 1169 PV1-F 1x4mm <sup>2</sup> , Black / Red, TUV certification.							
<b>AC cable</b>	According to local certification.							

## TYPICAL SYSTEM CONFIGURATION: COMMERCIAL

<b>System Model</b>	<b>CS30K</b>	<b>CS40K</b>	<b>CS50K</b>	<b>Above 50kW</b>	
<b>System Capacity</b>	30kW	40kW	50kW	60-1000kW (@380V/400V)	
<b>Power Generation in 1st Year*(kWh)</b>	41885	56489	66785	N/A	
<b>Solar Module</b>	<b>Power Output</b>	290 / 295 / 300 W ( or 350 / 355 / 360 W)			
	<b>Quantity</b>	120pcs	150pcs	180pcs	According to requirements
<b>Solar Inverter</b>	<b>Power (AC)</b>	30kW	40kW	50kW	Several inverters
	<b>Communication</b>	Wifi (Default) or GPRS (Optional, SIM card is not available.)			
	<b>Monitoring system</b>	Mobile APP and PC web.			
<b>Solar Mounting System</b>	1) Aluminum (AL6005-T5).				
	2) Steel: Hot dip galvanized steel, and stainless steel fasteners.				
<b>Distribution Box / Cabinet</b>	According to local grid code and requirements.				
<b>Solar cable</b>	2 Pfg 1169 PV1-F 1x4mm <sup>2</sup> , Black / Red, TUV certification.				
<b>AC cable</b>	According to local certification and requirements.				

\* The data are based on CS3K-295P with annual horizontal global irradiation of 1319.1 kWh/m<sup>2</sup> in Dongying, Shandong Province.



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**NASDAQ:CSIQ**

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Company Profile, Apr. 2019  
Information stated in this document is subject to  
change without notice. Please be kindly advised that  
the system should be handled and installed by  
qualified people and carefully read the safety  
installation instructions before using.

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**PARTNER SECTION**

