



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



CSI SOLAR CO., LTD. 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 49 GW deployed around the world since 2001, Canadian Solar is one of the most bankable solar companies worldwide.

CSI Solar Co., Ltd.

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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.

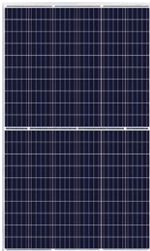
4. Distribution Box / Cabinet

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

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

TYPICAL SYSTEM CONFIGURATION: COMMERCIAL

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

* The data are based on CS3K-295P with annual horizontal global irradiation of 1319.1 kWh/m² in Dongying, Shandong Province.



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Company Profile, 2021

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

