



CS6P-260 | 265 | 270 | 275P-SD



* Optional black frame available upon request

Canadian Solar's SmartDC module features an innovative integration of Canadian Solar's module technology and SolarEdge's power optimization for grid-tied PV applications. By replacing the traditional junction-box with a SolarEdge power optimizer, the SmartDC module optimizes power output at module-level. With this feature, the SmartDC module can eliminate the module-level mismatch and decrease shading losses. Furthermore, the SmartDC module provides module-level data to minimize operational costs and allow effective system management.

KEY FEATURES



Harvest up to 25% more energy from each module

- Maximizes power from each individual module against potential mismatch risk
- Decreases shading losses



Easy installation, simple system design

- Integrated smart solution, no need to add other accessories
- Enhances the shading tolerance



Reduced BoS Costs

- Up to 11.25 kW ~ 12.75 kW per string allows for more modules based on different inverters



Free module-level monitoring system

- Full visibility of system performance
- Free smart phone app for the monitoring system



More Safety

- Automatic drop of DC current and voltage when inverter or grid power is shutdown



linear power output warranty



product warranty on materials and workmanship

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2008 / Quality management system

ISO 14001:2004 / Standards for environmental management system

OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE / MCS / CEC AU

UL 1703 / IEC 61215 performance: CEC listed (US)

UL 1703: CSA / IEC 61701 ED2: VDE / IEC 62716: VDE

IEC 60068-2-68: SGS

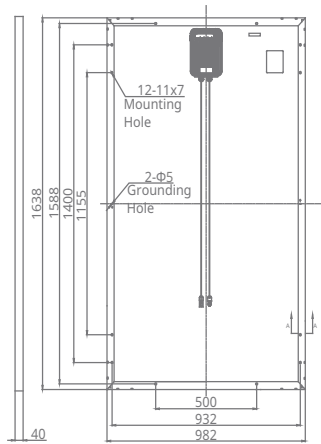


* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

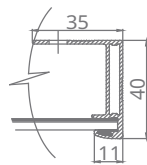
CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 17 GW deployed around the world since 2001, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide.

ENGINEERING DRAWING (mm)

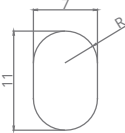
Rear View



Frame Cross Section



Mounting Hole



ELECTRICAL DATA | STC*

Power Optimizer connected to a SolarEdge Inverter

CS6P	260P-SD	265P-SD	270P-SD	275P-SD
Nominal Max. Power (Pmax STC)	260 W	265 W	270 W	275 W
Nominal Max. Power (Pmax NOCT)	189 W	192 W	196 W	199 W
Open Circuit Voltage (Voc STC)	37.5 V	37.7 V	37.9 V	38.0 V
Output Voltage Range (Vout)	5-60V	5-60V	5-60V	5-60V
Max. Output Current (Imax)	15A	15A	15A	15A
Max. Series Fuse Rating	20A	20A	20A	20A
Module Efficiency	16.16%	16.47%	16.79%	17.10%
Output During Standby (power optimizer disconnected from inverter or inverter off)	1 V			

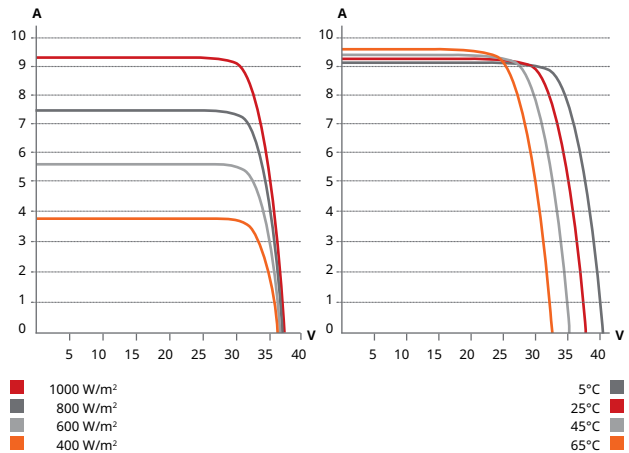
* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. Measurement uncertainty: ±3% (Pmax).

PV SYSTEM DESIGN

Min. String Length	EU & APAC	1 ph	8			
		3 ph	16			
US & Canada	3 ph (208 V)	3 ph - MV	18			
		1 ph	8			
		3 ph (480 V*)	10			
Max. String Length	EU & APAC	1 ph	20	19	19	19
		3 ph	43	42	41	40
		3 ph - MV	49	48	47	46
	US & Canada	1 ph	20	19	19	19
		3 ph (208 V)	23	22	22	21
		3 ph (480 V*)	49	48	47	46
Max. Power per String (W)	EU & APAC	1 ph	5250			
		3 ph	11250			
		3 ph - MV	12750			
	US & Canada	1 ph	5250			
		3 ph (208 V)	6000			
3 ph (480 V*)	12750					
Parallel Strings of Diff. Lengths	Yes					
Parallel Strings of Diff. Orientations	Yes					
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1000 V (IEC) / 1000 V (UL) / 600 V (UL)					
Application Classification	Class A					
Fire Rating	Type 1 (UL1703) / Class C (IEC61730)					
Power Tolerance	0 ~ +5 W					

* UL1000V model available.

CS6P-265P-SD / I-V CURVES



MECHANICAL DATA

Specification	Data
Cell Type	Poly-crystalline, 6 inch
Cell Arrangement	60 (6×10)
Dimensions	1638×982×40 mm (64.5×38.7×1.57 in)
Weight	19.1 kg (42.1 lbs)
Front Cover	3.2 mm tempered glass
Frame Material	Anodized aluminium alloy
J-Box	IP65
Cable	PV1-F 1*6.0 mm ² / 952 mm
Connectors	MC KST4/X and KBT4/X
Per Pallet	26 pieces, 544 kg (1199 lbs) (quantity & weight per pallet)
Per Container (40' HQ)	728 pieces

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.41 % / °C
Temperature Coefficient (Voc)	-0.31 % / °C
Temperature Coefficient (Isc)	0.053 % / °C
Nominal Operating Cell Temperature	45±2 °C

STANDARD COMPLIANCE

Specification	Standard
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3
PV Optimizer J-Box	EN50548, UL3730, IEC62109-1 (class II safety), UL1741
Fire Safety	VDE-AR-E 2100-712:2013-05

PARTNER SECTION



* This datasheet is written in English with Chinese (or other language) translation for reference only. In case there are inconsistencies or conflicts between the English version and the Chinese version (or other language version) of this datasheet, the English version shall prevail and take control in all respects.

CANADIAN SOLAR INC.

c/o Canadian Solar Australia 1 Pty Ltd. Jan 2017. All rights reserved, PV Module Product Datasheet V5.531_AU