



# CS6A

150/160/170

e-Module

## On-grid Module

e-Module CS6A is a robust solar module with 48 solar cells. These modules can be used for on-grid solar applications. Our 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 guarantee Canadian Solar's modules meet the highest quality standards possible.

## Customer Values

**Economical solar modules** with best performance-to-price ratio and fast return of investment (ROI)

**Environmentally friendly production**, non-toxic and no potential environmental and legal risks

## Key Features

Strong frame, passing mechanical load test of 5400Pa, instead of the normal 2400Pa, to withstand heavier snow load and higher wind-pressure

Industry leading power tolerance :  $\pm 5W$  ( $\pm 2.9\%$ )

25 years performance warranty

The 1st manufacturer in PV industry to apply ISO:TS16949 (The automotive quality management system) in module production

ISO17025 qualified manufacturer owned testing lab (pending), fully complying to IEC, TUV, UL testing standards

## Applications

- On-grid residential roof-tops
- On-grid commercial/industrial roof-tops
- Solar power stations
- Other on-grid applications

## Quality Certificates

- IEC 61215, IEC 61730, TUV Safety Class II, UL 1703, CE
- ISO9001:2000: Standards for quality management systems
- ISO/TS16949:2002: The automotive quality management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations

# CS6A-150/160/170

## e-Module

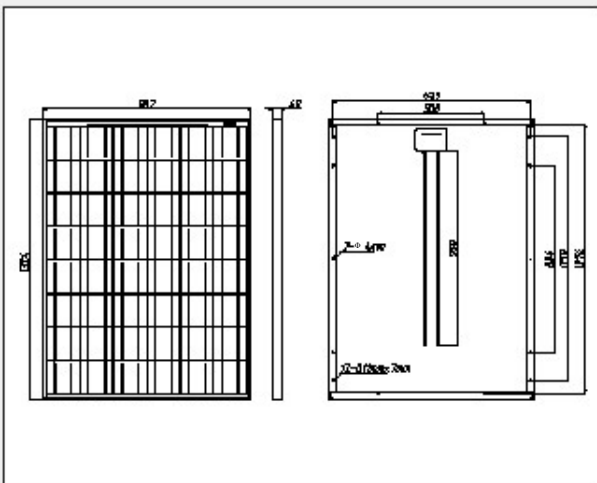
### Electrical Data

		CS6A-150	CS6A-160	CS6A-170
Nominal Maximum Power at STC (Pmax)		150W	160W	170W
Optimum Operating Voltage (Vmp)		23.1V	23.1V	23.2V
Optimum Operating Current (Imp)		6.50A	6.92A	7.33A
Open Circuit Voltage (Voc)		28.8V	28.9V	29.2V
Short Circuit Voltage (Isc)		7.12A	7.51A	7.85A
Operating Temperature		-40°C~+85°C		
Maximum System Voltage		1,000V (IEC) /600V (UL)		
Maximum Series Fuse Rating		15A		
Power Tolerance		±5W		
Temperature Coefficient	Pmax	-0.45 %/°C		
	Voc	-0.35 %/°C		
	Isc	0.060 %/°C		
	NOCT	45°C		

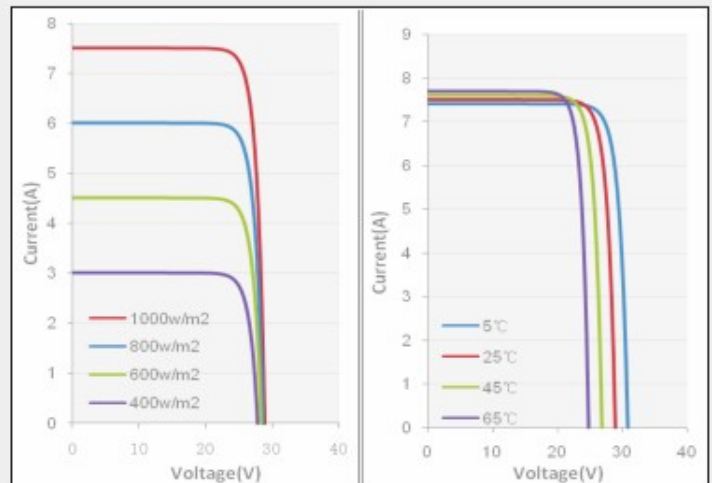
### Mechanical Data

Cell Type	Solar Grade Silicon
Cell Arrangement	48 (6*8)
Dimensions	1324mm*982mm*40mm
Weight	16kg
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Packaging (Modules per Pallet)	20pcs

### Engineering Drawings



### I-V Curves





## CS6A

160/170/180

### On-grid Module

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### Key Features

Strong frame, passing mechanical load test of 5400Pa, instead of the normal 2400Pa, to withstand heavier snow load and higher wind-pressure

Industry leading power tolerance :  $\pm 5W$  ( $\pm 2.8\%$ )

25 years performance warranty

The 1st manufacturer in PV industry certified to ISO:TS16949 (The automotive quality management system, since 2003) in module production

ISO17025 qualified manufacturer owned testing lab (pending), fully complying to IEC, TUV, UL testing standards

### Applications

- On-grid residential roof-tops
- On-grid commercial/industrial roof-tops
- Solar power stations
- Other on-grid applications

### Quality Certificates

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# CS6A-160/170/180

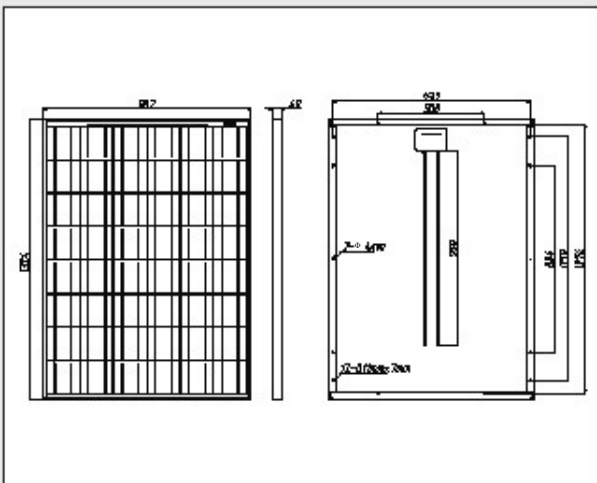
## Electrical Data

		CS6A-160	CS6A-170	CS6A-180
Nominal Maximum Power at STC (Pmax)		160W	170W	180W
Optimum Operating Voltage (Vmp)		23.1V	23.2V	23.6V
Optimum Operating Current (Imp)		6.92A	7.33A	7.62A
Open Circuit Voltage (Voc)		28.9V	29.2V	29.4V
Short Circuit Voltage (Isc)		7.51A	7.85A	8.20A
Operating Temperature		-40°C ~ +85°C		
Maximum System Voltage		1,000V (IEC) / 600V (UL)		
Maximum Series Fuse Rating		15A		
Power Tolerance		±5W		
Temperature Coefficient	Pmax	-0.45 %/°C		
	Voc	-0.35 %/°C		
	Isc	0.060 %/°C		
	NOCT	45°C		

## Mechanical Data

Cell Type	Poly-crystalline ( Mono-crystalline)
Cell Arrangement	48 (6 x 8)
Dimensions	1324mm x 982mm x 40mm (52.1x 38.7 x 1.6 in)
Weight	16kg (35.3 lbs)
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Packaging (Modules per Pallet)	20pcs

## Engineering Drawings



## I-V Curves

