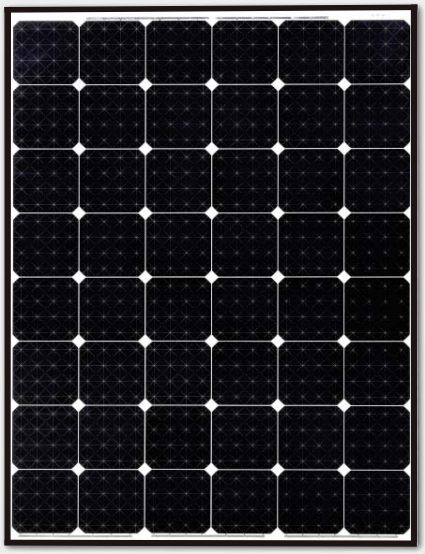
NEW



CanadianSolar

ELPS Module

CS6A-205/210/215MM

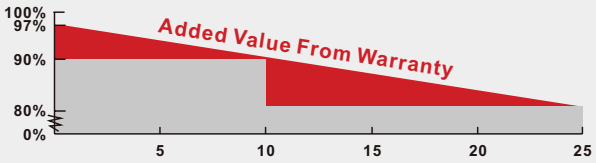
ELPS Cell Technology

Highest cell efficiency up to **21.1%**

Our new breakthrough ELPS technology enables solar cells to collect more light resulting in 21.1% cell efficiency for monocrystalline cells. These new cells feature a metal wrap through (MWT) design which moves the front busbars to the back of the cells allowing for 3% more light absorption per cell. As a result these modules deliver up to 10% more electricity than conventional solar modules.

ELPS Technology Highlights

- **More Electricity Output**
  Delivers up to 10% more electricity than conventional solar modules
- **Highest Efficiency Module (P-Type)**
  ELPS technology increases light absorption up to 3% more, delivering more module level power output and higher efficiency than conventional cells and modules
- **Lower Installation Cost Down to 10%**
  Get more watts in less space for savings on ground and rooftop installation time, mounting systems and cables
- **Aesthetical PV Solution**
  Roof-applied ELPS modules with aesthetical pattern cells and black frames make your roof perfect
- **Backed By Our New 10/25 Linear Power Warranty Plus our added 25 year insurance coverage**



- 10 year product warranty on materials and workmanship
- 25 year linear power output warranty

Best Quality

- 235 quality control points in module production
- EL screening to eliminate product defects
- Accredited Salt mist/Ammonia resistance
- Current binning to improve system performance

Best Warranty Insurance

- 25 years worldwide coverage
- 100% warranty term coverage
- Providing third party bankruptcy rights
- Non-cancellable
- Immediate coverage
- Insured by 3 world top insurance companies

Comprehensive Certificates

- IEC 61215, IEC 61730, IEC 61701ED2, UL 1703, IEC 62716, MCS, CE, JET
- ISO9001: 2008: Quality Management System
- ISO/TS16949:2009: The automotive quality management system
- ISO14001:2004: Standards for Environmental management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations
- OHSAS 18001:2007: International standards for occupational health and safety

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ELPS Module

CS6A-205/210/215MM

Electrical Data

STC	CS6A-205MM	CS6A-210MM	CS6A-215MM
Nominal Maximum Power (Pmax)	205W	210W	215W
Optimum Operating Voltage (Vmp)	24.5V	24.6V	24.7V
Optimum Operating Current (Imp)	8.38A	8.54A	8.70A
Open Circuit Voltage (Voc)	30.2V	30.3V	30.4V
Short Circuit Current (Isc)	8.90A	9.06A	9.22A
Module Efficiency	15.77%	16.15%	16.54%
Operating Temperature	-40℃~+85℃		
Maximum System Voltage	1000V (IEC) /600V (UL)		
Maximum Series Fuse Rating	15A		
Application Classification	Class A		
Power Tolerance	0 ~ +5W		

Under Standard Test Conditions (STC) of irradiance of 1000W/m^2, spectrum AM 1.5 and cell temperature of 25℃

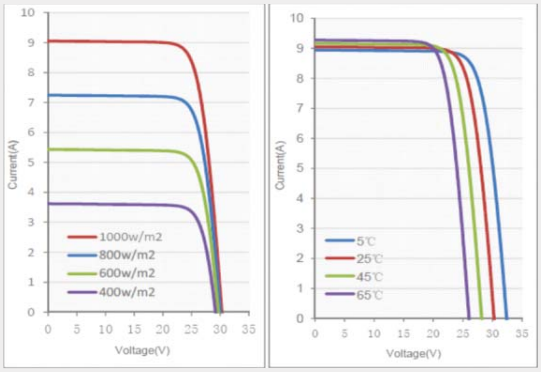
NOCT	CS6A-205MM	CS6A-210MM	CS6A-215MM
Nominal Maximum Power (Pmax)	148W	152W	155W
Optimum Operating Voltage (Vmp)	22.3V	22.4V	22.5V
Optimum Operating Current (Imp)	6.62A	6.76A	6.89A
Open Circuit Voltage (Voc)	27.7V	27.8V	27.9V
Short Circuit Current (Isc)	7.20A	7.33A	7.46A

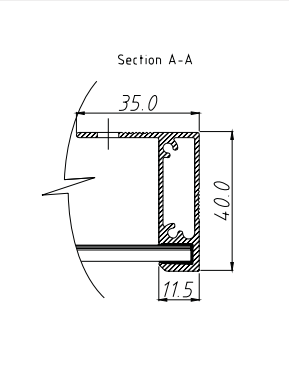
Under Normal Operating Cell Temperature, Irradiance of 800 W/m^2, spectrum AM 1.5, ambient temperature 20℃, wind speed 1 m/s

Mechanical Data

Cell Type	ELPS Mono Cell 156 x 156mm
Cell Arrangement	48 (6 x 8)
Dimensions	1324 x 984 x 40mm (52.1 x 38.7 x 1.57in)
Weight	15.5kg (34.2 lbs)
Front Cover	3.2mm Tempered glass
Frame Material	Anodized aluminium alloy
J-BOX	IP65 or IP67, 3 diodes
Cable	4mm^2(IEC)/12AWG(UL), 950mm
Connectors	MC4 or MC4 Comparable
Standard Packaging (Modules per Pallet)	24pcs
Module Pieces per container (40 ft . Container)	768 pcs (40'HQ)

I-V Curves (ELPS CS6A-210MM)





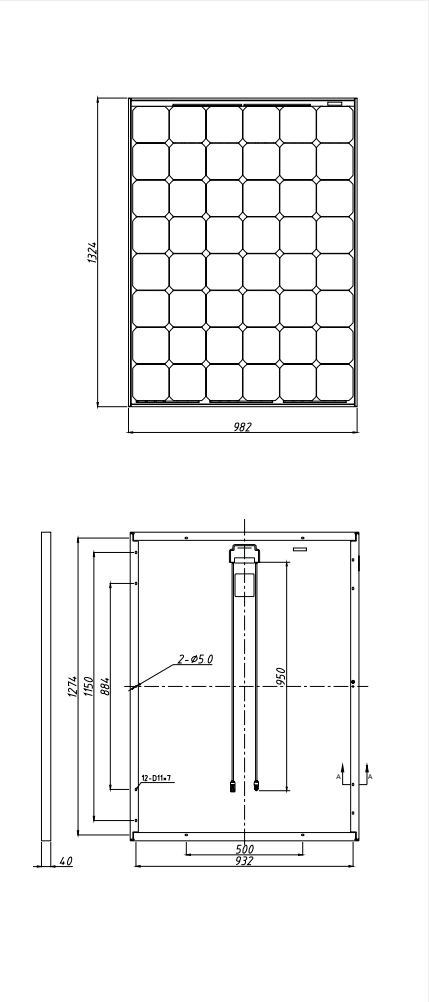
Temperature Characteristics

Temperature Coefficient	Pmax	-0.45%/℃
	Voc	-0.35 %/℃
	Isc	0.060 %/℃
Normal Operating Cell Temperature		45±2℃

Performance at Low Irradiance

Industry leading performance at low irradiation environment, +95.5% module efficiency from an irradiance of 1000w/m^2 to 200w/m^2 (AM 1.5, 25 ℃)

Engineering Drawings



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

About Canadian Solar

Canadian Solar Inc. is one of the world's largest solar companies. As a leading vertically-integrated manufacturer of ingots, wafers, cells, solar modules and solar systems, Canadian Solar delivers solar power products of uncompromising quality to worldwide customers. Canadian Solar's world class team of professionals works closely with our customers to provide them with solutions for all their solar needs.

Canadian Solar was founded in Canada in 2001 and was successfully listed on NASDAQ Exchange (symbol: CSIQ) in November 2006. Canadian Solar has cell manufacturing capacity of 1.5GW and module manufacturing capacity of 2.3GW.

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