

Calculation of Proposed Project's Financial Impact on Solar Panels at 1114 3rd Street NE

The table on the following page details the monthly kilowatt hour (kWh) usage at my home from October 2014 through September 2016. The 12 months from **October 2014 through September 2015** represent the monthly usage and Pepco bill totals at my home **prior to** the installation of the net meter (i.e. solar panel installation/generation). The 12 months from **October 2015 through September 2016** represent the monthly usage and Pepco bill totals at my home **following** the installation of the net meter. The last set of rows on the chart details the pre-/post-solar panel year-over-year changes in usage and resulting monthly Pepco bill totals. As illustrated by the comparison, **I receive a \$765 annual benefit due to the consumption of renewable power at my home.**

I also receive additional financial benefit from the Solar Renewable Energy Credits (SRECs) generated by the solar panels at my house. SREC value is tied to the District's Solar Alternative Compliance Payment of \$500—the penalty price that electricity suppliers must pay per SREC if they fail to file the required number of SRECs by the end of each compliance period. During the system's first year of the operation (October 2015 through September 2016), the panels generated 5 SRECs, each of which currently trades on the SREC marketplace at \$480. Accordingly, **I receive a \$2,400 annual benefit due to the SRECs generated at my house.**

Together, these benefits total \$3,165 annually. Given the proposed project's height (108 feet, including the penthouse level) and immediate proximity west and south of my house, **this project would reduce the generating efficiency (with respect to both usage and SREC generation) by at least half (50%).**

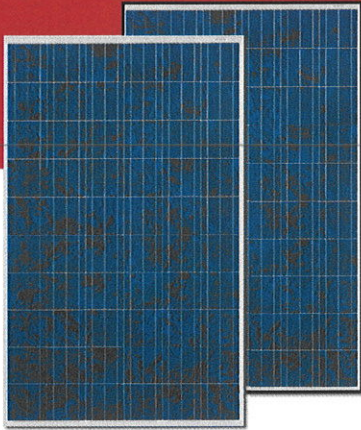
As long as my home remains an approved District of Columbia renewable energy standards generating facility, its ability to generate power and SRECs extends in perpetuity. For "financial impact" calculations, the warranty period for the installed panels is typically used as a proxy. The panels installed at my home (specs attached) are guaranteed for up to 80% of the stated power output **for at least 25 years.** Accordingly, **the total financial impact of the proposed project on the solar panels installed at my home equates to roughly \$40,000:**

Annual Benefit - Power Generation	\$ 765
<u>Annual Benefit - SREC Generation</u>	<u>\$ 2,400</u>
Annual Benefit - TOTAL	\$ 3,165
<u>Proposed Project's Annual Impact on Generation Potential (%)</u>	<u>-50%</u>
<u>Proposed Project's Annual Impact on Generation Potential (\$)</u>	<u>\$ (1,583)</u>
<u>Calculation Period (years)</u>	<u>25</u>
Proposed Project's TOTAL Financial Impact \$ (39,563)	

	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Annual '14-'15	Sep-14
Pre-Solar Panel Usage (kWh)	242	193	444	967	768	712	605	486	1,060	1,459	1,195	272	8,161	568
Bill ⁽¹⁾	\$ 38.30	\$ 32.94	\$ 59.10	\$ 118.46	\$ 95.24	\$ 86.33	\$ 73.94	\$ 60.07	\$ 126.96	\$ 186.73	\$ 151.31	\$ 41.00	\$ 1,032.08	\$ 74.22
Post-Solar Panel Usage (kWh)	765	82	179	343	237	(3)	(219)	(160)	(12)	61	498	724	1,730	200
Bill (net of Pepco/Exelon Credit) ⁽¹⁾	\$ 101.12	\$ 21.85	\$ 32.54	\$ 50.51	\$ 38.79	\$ 15.24	\$ (5.30)	\$ (5.08)	\$ 5.43	\$ 5.31	\$ 43.66	\$ 63.95	\$ 368.02	\$ 17.87
Actual Bill ⁽²⁾							\$ (59.89)	\$ (64.97)	\$ (59.54)	\$ (54.23)	\$ (10.57)	\$ 53.38		
Delta (kWh)	523	(111)	(265)	(624)	(531)	(715)	(824)	(646)	(1,072)	(1,398)	(697)	452	Annual (6,431)	
Delta (\$)	\$ 62.82	\$ (11.09)	\$ (26.56)	\$ (67.95)	\$ (56.45)	\$ (71.09)	\$ (79.24)	\$ (65.15)	\$ (121.53)	\$ (181.42)	\$ (107.65)	\$ 22.95	\$ (765.18)	

⁽¹⁾ The net meter was installed just before Labor Day 2015. Accordingly, the September 2015 bill is abnormally low (the last days of the 'regular' meter being in place, which was for a period of less than 30 days) and the October 2015 bill is abnormally high (i.e. for a period longer than a month—actually closer to two months). For comparison purposes, the September 2014 bill (pre-net metering) and October 2016 bill (post-net metering) are shown to the right.

⁽²⁾ The Exelon rate credit of \$54.59 given to all District homeowners skews the monthly bill charges for April 2016 – September 2016. Accordingly, this amount was deducted from these bills to allow for 'apples-to-apples' comparisons with the respective 'pre-solar' monthly bill totals.



*Black frame product is optional

CS6P-250 | 255P

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Canadian Solar's modules are the best in class in terms of power output and long term reliability. Our meticulous product design and stringent quality control ensure our modules deliver a higher PV energy yield in live PV system as well as in PVsyst's system simulation. Our in-house PV testing facilities guarantee all module component materials meet the highest quality standards possible.

PRODUCT | KEY FEATURES



Excellent module efficiency
up to 15.85%



Outstanding performance at low irradiance
above 96.5%



Positive power tolerance
up to 5w



High PTC rating
up to 91.04%



Self-cleaning & anti-glaring
module surface available



IP67 junction box available
long-term weather endurance

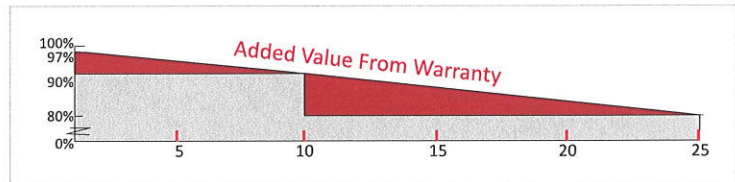


Heavy snow load
up to 5400pa



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PRODUCT | WARRANTY & INSURANCE



25 Year Industry leading linear power output warranty

10 Year Product warranty on materials and workmanship



Canadian Solar provides 100% non-cancellable, immediate warranty
insurance

PRODUCT & MANAGEMENT SYSTEM | CERTIFICATES

IEC 61215 / IEC 61730: VDE/TUV/CE/MCS/JET/KEMCO/SII/CEC AU/ INMETRO/CQC/CGC
UL 1703 / IEC 61215 performance: CEC listed (US) / FSEC (US Florida)
UL 1703: CSA | IEC 61701 ED2: VDE | IEC 62716: TUV | IEC60068-2-68: SGS
PV CYCLE | UNI9177 Reaction to Fire: Class 1

ISO9001: 2008 | Quality management system
ISOTS16949:2009 | The automotive industry quality management system
ISO14001:2004 | Standards for environmental management system
QC080000:2012 | The certificate for hazardous substances process management
OHSAS18001:2007 | International standards for occupational health and safety

*Please contact your sales representative for the entire list of certificates applicable to your products

CANADIAN SOLAR INC.

Founded in 2001 in Canada, Canadian Solar Inc., (NASDAQ:CSIQ) is one of the world's largest and foremost solar power companies. As a leading manufacturer of solar modules and PV project developer with about 6 GW of premium quality modules deployed around the world in the past 12 years, Canadian Solar is one of the most bankable solar companies in Europe, USA, Japan and China. Canadian Solar operates in six continents with customers in over 70 countries and regions. Canadian Solar is committed to providing high quality solar products, solar system solutions and services to customers around the world.



ELECTRICAL DATA | STC

Electrical Data	CS6P-250P	CS6P-255P
Nominal Maximum Power (Pmax)	250W	255W
Optimum Operating Voltage (Vmp)	30.1V	30.2V
Optimum Operating Current (Imp)	8.30A	8.43A
Open Circuit Voltage (Voc)	37.2V	37.4V
Short Circuit Current (Isc)	8.87A	9.00A
Module Efficiency	15.54%	15.85%
Operating Temperature	-40°C~+85°C	
Maximum System Voltage	1000V (IEC) / 1000V (UL) / 600V (UL)	
Maximum Series Fuse Rating	15A	
Application Classification	Class A	
Power Tolerance	0 ~ +5W	

*Under Standard Test Conditions (STC) of irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NOCT

Electrical Data	CS6P-250P	CS6P-255P
Nominal Maximum Power (Pmax)	181W	185W
Optimum Operating Voltage (Vmp)	27.5V	27.5V
Optimum Operating Current (Imp)	6.60A	6.71A
Open Circuit Voltage (Voc)	34.2V	34.4V
Short Circuit Current (Isc)	7.19A	7.29A

*Under Nominal Operating Cell Temperature(NOCT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C.

MODULE | MECHANICAL DATA

Specification	Data
Cell Type	Poly-crystalline 156 x 156mm
Cell Arrangement	60 (6 x 10)
Dimensions	1638 x 982 x 40mm (64.5 x 38.7 x 1.57in)
Weight	18.5kg (40.8 lbs)
Front Cover	3.2mm tempered glass
Frame Material	Anodized aluminium alloy
J-BOX	IP65 or IP67, 3 diodes
Cable	4mm ² (IEC)/4mm ² &12AWG 1000V(UL1000V)/12AWG(UL600V), 1000mm
Connectors	MC4 or MC4 comparable
Standard Packaging	24pcs, 504kg (quantity and weight per pallet)
Module Pieces Per Container	672pcs (40'HQ)

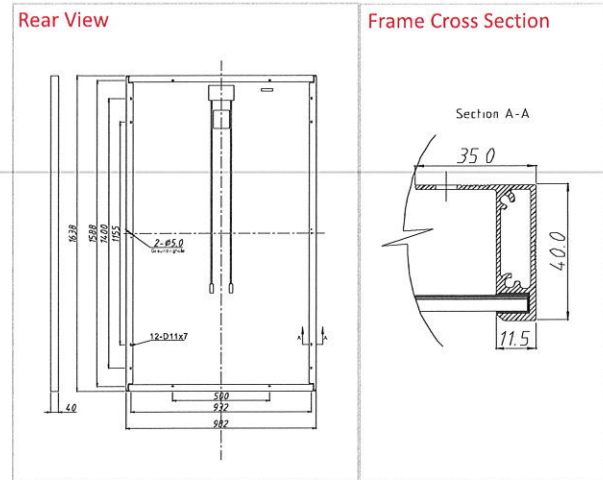
TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.43%/°C
Temperature Coefficient (Voc)	-0.34%/°C
Temperature Coefficient (Isc)	0.065%/°C
Nominal Operating Cell Temperature	45±2°C

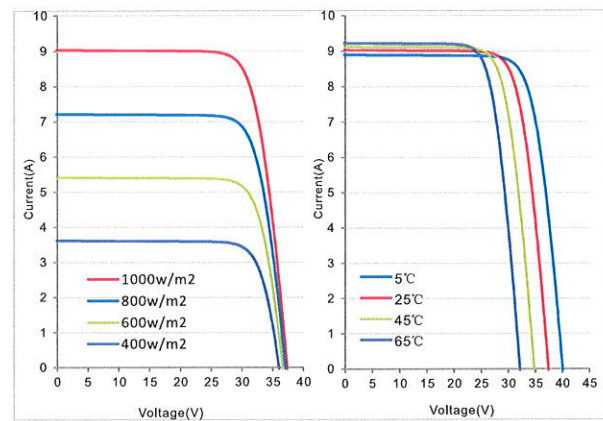
PERFORMANCE AT LOW IRRADIANCE

Industry leading performance at low irradiation environment, +96.5% module efficiency from an irradiance of 1000w/m² to 200w/m² (AM 1.5, 25 °C)

MODULE | ENGINEERING DRAWING



CS6P-255P | I-V CURVES



Partner Section

*The specifications made herein may deviate slightly and are not guaranteed. Due to ongoing innovation, research and product enhancement we reserve the right to make any adjustments to the information contained herein at any time without notice. Please always obtain the most recent revision of datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.