DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING PERMIT

This is to certify that EAST BROWN COW MANAGEMENT Located At 425 FORE ST

Job ID: 2012-03-3585-ALTCOMM CBL: 032- I-041-001

has permission to Add 120 Solar (PV) panels to parking garage roof

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.	A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

JMB 5/1/12

Fire Prevention Officer Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application
389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No:	Date Applied:	CBL:	
2012-03-3585-ALTCOMM	**3/23/2012**	**032- I-041-001**	
Location of Construction: **425 FORE ST**	Owner Name: **EAST BROWN COW MANAGEMENT**	Owner Address: **100 COMMERCIAL ST** **PORTLAND, ME 04101**	Phone: **207-650-0606**
Business Name:	Contractor Name: **Revision Energy – Jen Hatch**	Contractor Address: **142 Presumpscot St., Portland, ME 04103**	Phone: **(207) 221-6342**
Lessee/Buyer's Name:	Phone:	Permit Type: **BLDG - Building**	Zone: **B-3**
Past Use: Parking Garage	Proposed Use: Parking Garage – install 120 solar electric panels to existing roof structure	Cost of Work: **110000.00** Fire Dept: √ Approved w/ conditions ___ Denied ___ N/A Signature: BJ Andrews (58)	CEO District: Inspection: Use Group: 5-2 Type: N/A IBC-2009 Signature: DMB 5/1/12
Proposed Project Description: **Adding Solar panels to roof structure**		Pedestrian Activities District (P.A.D.)	
Permit Taken By:			

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building Permits do not include plumbing, septic or electrial work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
___ Shoreland	___ Variance	___ Not in Dist or Landmark
___ Wetlands	___ Miscellaneous	___ Does not Require Review
___ Flood Zone	___ Conditional Use	___ Requires Review
___ Subdivision	___ Interpretation	___ Approved
___ Site Plan	___ Approved	√ Approved w/Conditions
___ Maj ___ Min ___ MM	___ Denied	___ Denied
Date: 3/26/12 OK ABM	Date:	Date: 4/30/12 D. Andrews

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT ADDRESS DATE PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Electrical prior to close in if needed

Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

Job ID: 2012-03-3585-ALTCOMM **Located At:** 425 FORE ST **CBL:** 032- I-041-001

Conditions of Approval:

Fire

1. Installation shall comply with City Code Chapter 10.
2. Installation shall comply with NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

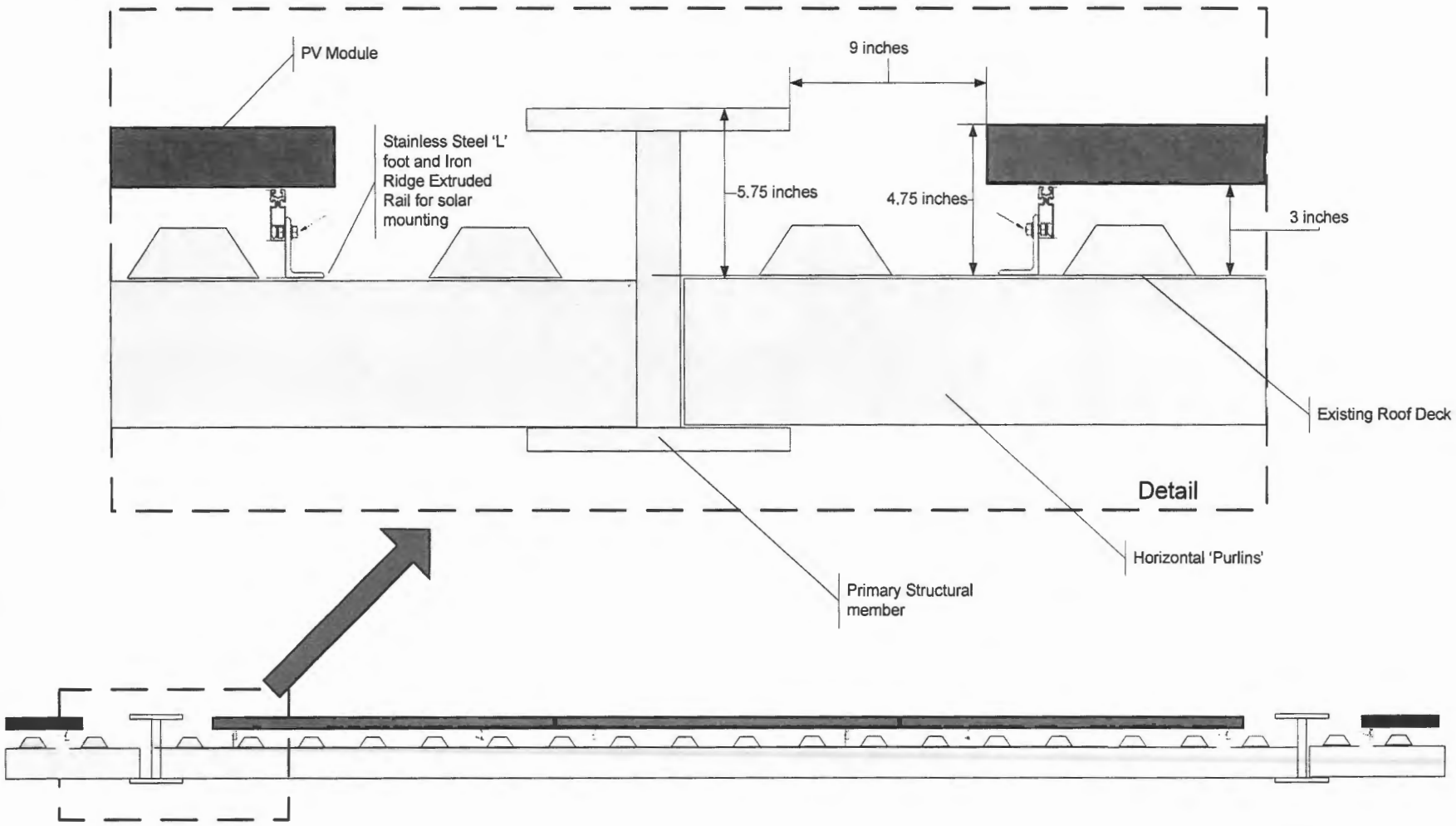
Building

1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.
3. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.

Historic

1. All panels, including those installed on the taller roof plane, to be installed in the same orientation/direction.
2. Panels to be installed between—not overlapping—projecting ribs of roof, as per attached computer generated photo and detail dated 4/03/12.
3. Exposed areas of underlying roofing to be repainted in advance of installing the panels

Approved
installation
method, as
per HD
Conditions of
approval -
See also
detail
PUBLIC
EXIT



142 Presumpscot Street
Portland, Maine, 04097
207-221-6342

Array Section showing relative height of module and structural steel I beams

Fore Street Garage; Portland ME

DATE	DRAWN BY	PAGE	DWG#	Rev.
04/03/2012	F Mueller	1 of 1	1	2

B-3

Entered 3/23/12 (B)

General Building Permit Application

ID#: 2012-03-3585-ALTcomm

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: ~~429~~ 425 Fore Street		
Total Square Footage of Proposed Structure/Area	Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 032 J041	Applicant *must be owner, Lessee or Buyer* Name EAST Brown Cow Management Address 100 Commercial St #36 City, State & Zip Portland, ME 04101	Telephone: 650-0606 Todd Dominski
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name 1,100 109,000 Address 30 1090 City, State & Zip 1,130 30 1120	Cost Of Work: $ 109,860 C of O Fee: $ Total Fee: $ 1130

Current legal use (i.e. single family) parking garage Number of Residential Units

If vacant, what was the previous use?

Proposed Specific use:

Is property part of a subdivision? If yes, please name

Project description: Adding 120 solar electric panels to roof structure.

RECEIVED
MAR 23 2012
Dept. of Building Inspections
City of Portland Maine

Contractor's name: Revision Energy		
Address: 142 Presumpscot St		
City, State & Zip Portland, ME 04103	Telephone:	
Who should we contact when the permit is ready: Jen Hatch	Telephone: 221-6342	
Mailing address: above		

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: Date: 3/23/2012

This is not a permit; you may not commence ANY work until the permit is issued

Revised 01-20-10

PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • *www.portlandmaine.gov*

Receipts Details:

Tender Information: Check , Check Number: 25098
Tender Amount: 55.00

Receipt Header:

Cashier Id: bsaucier
Receipt Date: 3/23/2012
Receipt Number: 42161

Receipt Details:

Referance ID:	5795	Fee Type:	BP Elec Comm
Receipt Number:	0	Payment Date:	
Transaction Amount:	55.00	Charge Amount:	55.00
Job ID: Job ID: 2012-03-3585-ALTCOMM - Adding Solar panels to roof			
Additional Comments: 425 Fore; 2 of 3 (same charge)			

Thank You for your Payment!

Professional design, installation and service of renewable energy systems

March 23, 2012

City of Portland
389 Congress Street
Portland, ME 04101

RE: ReVision Energy Solar Installation at Fore Street Garage
Address: 427 Fore Street

Dear Code Enforcement,

ReVision Energy has been contracted to design and install a solar electric (PV) system at the Fore Street Garage, at the above address in Portland. This letter is to confirm that all work will be performed by licensed and qualified installers, expert in the field and in compliance with both manufacturer's recommendations and all applicable local and state codes and standards. This also confirms that the roof structure can handle the weight of the panel load, in addition to snow load. The weight of the panels does not change the structural integrity of the building.

ReVision Energy employs licensed engineers, plumbers, and electricians and carries the solar industries highest certifications (NABCEP) in both solar thermal and photovoltaic installation. We're committed to high quality, code compliant work and look forward to working together with the city and the CEO to ensure that all your requirements and needs are met and that our customer ends up with a system that is beautiful, functional and safe.

Electrical and grounding:
All electrical work to be performed by a licensed ME electrician and will conform to NEC 2011 revision as well as NABCEP standards. Specifically, wiring and grounding of the photovoltaic system will be governed by manufacturer's recommendations and article 690. All installed metal components are grounded via the grounding electrode conductor.

If you have any questions or concerns, we'd like to address them as quickly and completely as possible. Please don't hesitate to call or e mail anytime.

Respectfully,

Fortunat Mueller, P.E.
Co-owner
ReVision Energy
(207) 752-6358
fortunat@revisionenergy.com

EXIT
EXIT
PUBLIC PARKING
PUBLIC PARKING

Professional design, installation and service of renewable energy systems

28.8 Kilowatt Grid-Tied Photovoltaic System Proposal

Client: East Brown Cow
Address: Fore Street Garage, Portland, ME
Date: March 1, 2012

Array Location

Roof Orientation:
165 degrees
(south-southeast)

Array Pitch:
Attached directly to existing metal awning deck ~ 35 degree angle

Project Summary

System	Performance	Cost	Incentives	Net Cost
28.8 kilowatt solar electric array coupled with Solectria grid tied inverters.	• Produce roughly 37,760 kilowatt hours of clean, renewable electricity annually.* *Based on PV watts* • Offset roughly 50,600 lbs. of CO2 emissions annually.	$109,860 Installed	**30% fed tax credit -($32,958)** **5yr Depreciation* -($28,014*)** **State Rebate -($2,000)** * assumes 30% tax rate	**$46,888**

System Overview
Based on an evaluation of the building's electrical infrastructure, electricity demand and ideal solar gain, ReVision Energy is proposing a 28.8 kw grid-tied solar electric system for the Fore Street Garage in Portland, Maine. The system will generate approximately 37,760 kilowatt hours of electricity annually **(or roughly enough energy to drive a Chevy Volt 151,000 miles per year)** and eliminating approximately 50,600 pounds of CO2 emissions per year. The solar

array will be mounted on the existing metal awnings which face Fore Street and will cover nearly the entire surface of that roof.

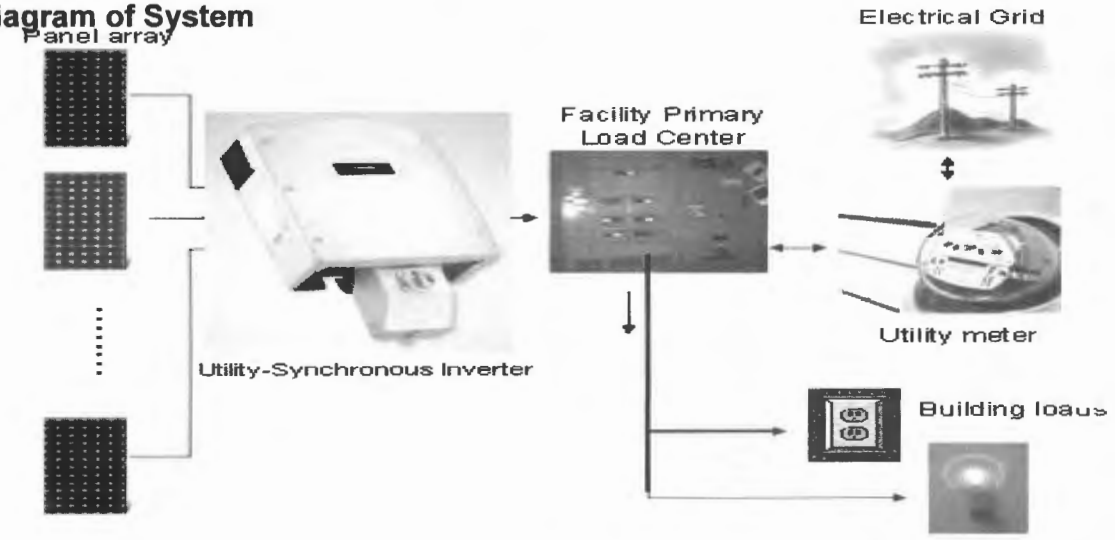
Array Layout

The solar electric system consists of two major components; the solar panels (or photovoltaic array) and the inverters. The system is comprised of 120 individual panels with a rated power of 240 watts each. Using stainless steel hardware, the panels will be mounted on extruded aluminum rail which will be fastened to the existing steel roof and structure.

System Operation

The panels are wired in a series, parallel arrangement to a pair of inverters which is in turn connected to the facility's load centers as shown below. Whenever the sun is shining, the panels produce direct current (DC) electricity. This electricity is wired in conduit to the inverters which converts the panels' DC current to AC current at the voltage and waveform to match the incoming utility. In most cases, this electricity will then be fed directly to the various building loads which are in operation at the time (lighting, water heating, etc.). In the case when the solar system is producing more electricity than the building is using, the excess will be fed back through the buildings' electrical meter and onto the electrical grid. Your utility company will install a meter capable of recording the surplus power production, which will result in carry-forward credits on the utility billing. The credits, at full retail value, can be carried forward for 13 months, after which any unused credits expire.

Block Diagram of System



Component Specification

Photovoltaic Panels

The array consists of 120 - 240 watt panels wired in a series, parallel arrangement to match the voltage and current requirements of the inverters. The panels are manufactured for Canadian Solar (www.canadiansolar.com)

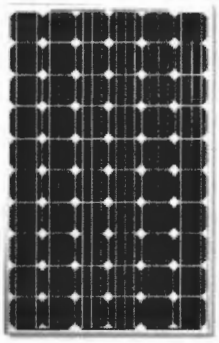
Canadian Solar was founded in Canada in 2001 and has a strong history of very high production quality combined with very high module performance. The modules carry a 25 year power production warranty and are expected to continue to produce power over five decades.

The system will use a pair of Solectria PVI inverters (one 10 kW and one 15 kW inverter). The Solectria PVI inverter is US made (right in Massachussets) and the five year warranty provides for in-the-field replacement for any service issue, minimizing downtime, should there ever be a fault. The inverters take the DC power from the panels and convert it to Alternating Current (AC). This AC power is then fed to the house load center and provides power for the buildings loads. The inverter is a world leader in efficient design, with over 95% peak efficiency for the inverter, and overall efficiency including transformer losses, in excess of 92%. An advanced MPPT (Maximum Power Point Tracking) algorithm maximizes PV array output in a variety of sunlight conditions.

Component Specifications

CanadianSolar

CS6P
230/235/240/245/250M

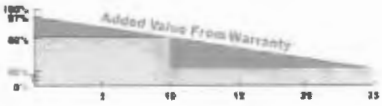


On-grid Module

CS6P s a robust solar module ew th 60 solar cells. These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure high-yield long-term performance forever. Only p produced. Our rigorous quality control and in-house testing facilities guarantee Canadian Solar's modules meet the highest quality standards possible.

Key Features

- Industry first comprehensive warranty insurance by AM Best rated leading insurance companies in the world
- Industry leading plus only power tolerance: 0 ~ +5W
- Strong framed module, passing mechanical load test of 5400Pa to w thstand heavier snow load
- The 1st manufacturer in the PV industry certified for ISO/TS16949 (The automotive quality management system) in module production since 2003
- ISO17025 qualified manufacturer owned testing lab fully comply ng to IEC, TUV, UL testing standards
- **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 l near power output warranty

Applications

- On-grid res dent a roof tops
- On-gr d comm erc a
- Solar power stat ons
- Other on-grid applicat

Quality Certificates

- IEC 61215, IEC 61730, UL 7 , CEC l sted, M S, CE
- ISO 9001: 2008: Standar s for quality management syste ns
- ISO/TS16949: 2009: The automotive qua management system

Environmental Certificates

- ISO 14001: 2004: Standards for En management systems
- QC080000 HSPM: The Certificat on for Hazardous Substances Regulation
- Reach Compl ance

SGS

www.canadiansolar.com

CS6P-230/235/240/245/250M

Electrical Data

STC	CS6P-230M	CS6P-235M	CS6P-240M	CS6P-245M	CS6P-250M
Nominal Maximum Power (Pmax)	230W	235W	240W	245W	250W
Optimum Operating Voltage (Vmp)	29.9V	30.1V	30.2V	30.3V	30.4V
Optimum Operating Current (Imp)	7.70A	7.82A	7.95A	8.09A	8.22A
Open Circuit Voltage (Voc)	37.1V	37.2V	37.3V	37.4V	37.5V
Short Circuit Current (Isc)	8.22A	8.34A	8.46A	8.61A	8.74A
Module Efficiency	14.30%	14.61%	14.92%	15.23%	15.54%
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/m², spectrum AM 1.5 and cell temperature of 25℃

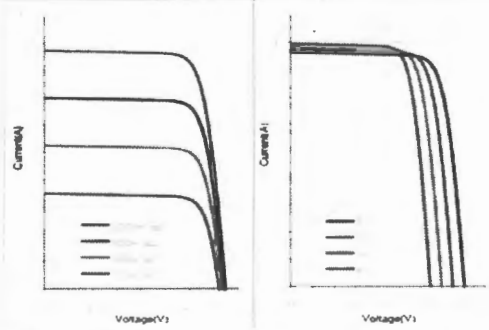
NOCT	CS6P-230M	CS6P-235M	CS6P-240M	CS6P-245M	CS6P-250M
Nominal Maximum Power (Pmax)	166W	170W	173W	177W	180W
Optimum Operating Voltage (Vmp)	27.3V	27.5V	27.5V	27.6V	27.7V
Optimum Operating Current (Imp)	6.09A	6.18A	6.29A	6.40A	6.51A
Open Circuit Voltage (Voc)	34.0V	34.1V	34.2V	34.3V	34.4V
Short Circuit Current (Isc)	6.65A	6.75A	6.85A	6.97A	7.08A

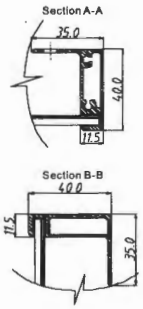
Under Normal Operating Cell Temperature, Irradience of 800 W/m², spectrum AM 1.5, ambient temperature 20℃, wind speed 1 m/s

Mechanical Data

Cell Type	Mono-crystalline 156 x 156mm, 2 or 3 Busbars
Cell Arrangement	60 (6 x 10)
Dimensions	1638 x 982 x 40mm (64.5 x 38.7 x 1.57in)
Weight	20kg (44.1 lbs)
Front Cover	3.2mm Tempered glass
Frame Material	Anodized aluminium alloy
J-BOX	IP65, 3 diodes
Cable	4mm²(IEC)/12AWG(UL), 1100mm
Connectors	MC4 or MC4 Comparable
Standard Packaging (Modules per Pallet)	24pcs
Module Pieces per container (40 ft. Container)	672pcs (40'HQ)

I-V Curves (CS6P-250M)





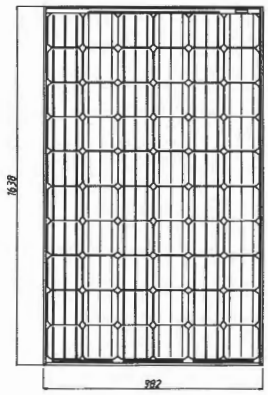
Temperature Characteristics

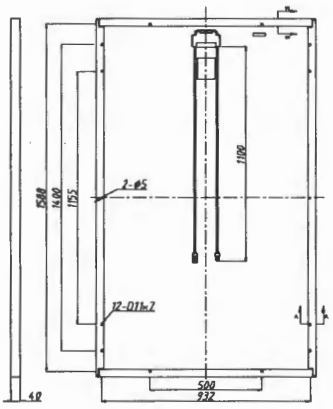
Temperature Coefficient	Pmax	-0.45%/℃
	Voc	-0.35 %/℃
	Isc	0.060 %/℃
Normal Operating Cell Temperature		45±2℃

Performance at Low Irradiance

Industry leading performance at low irradiation environment, +95.5% module efficiency from an irradiance of 1000w/m² to 200w/m² (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 already expanded its module manufacturing capacity to 2.05GW and cell manufacturing capacity to 1.3GW in 2011.

Headquarters | 650 Riverbend Drive, Suite B
Kitchener, Ontario | Canada N2K 3S2
Tel: +1-519-954-2057
Fax: +1-519-578-2097
inquire.ca@canadiansolar.com
www.canadiansolar.com

ReVision Energy

Professional design, installation and service of renewable energy systems

SOLECTRIA RENEWABLES

COMMERCIAL INVERTERS

PVI 10KW
PVI 13KW
PVI 15KW

FEATURES

- [illegible]
- Industrial grade
- Transformer isolated
- [illegible]
- [illegible]
- [illegible]
- [illegible]

OPTIONS

- [illegible]
- Forward facing disconnects
- Web-based monitoring

– In Electrical Room

COMMERCIAL INVERTERS

Popular among schools and small business customers, Solectria Renewables' PVI 10KW, PVI 13KW and PVI 15KW inverters are the smallest true three-phase PV inverter series in the industry. This series of commercial grade inverters is available in 208 VAC, 240 VAC, 480 VAC, and 600 VAC versions and comes standard with integrated AC and DC disconnects, LCD display, and monitoring gateway. Options include an integrated fine-position fused string combiner, forward facing disconnects, and web-based monitoring.

Built for the real world

Liberty, ME
(207) 589-4171

Portland, ME
(207) 221-6342

Exeter, NH
(603) 501-1822

www.revisionenergy.com

Professional design, installation and service of renewable energy systems

SPECIFICATIONS		PVI 10KW	PVI 13KW	PVI 15KW
DC Input				
[illegible]			[illegible]	
[illegible]			[illegible]	
[illegible]		[illegible]	[illegible]	[illegible]
AC Output				
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Efficiency				
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String Combiner Options				
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Temperature				
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Monitoring Options				
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Testing & Certifications				
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Warranty				
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SOLECTRIA RENEWABLES www.solren.com | inverters@solren.com | 978.683.9700

Liberty, ME (207) 589-4171

Portland, ME (207) 221-6342

Exeter, NH (603) 501-1822

www.revisionenergy.com

PRODUCT DATA SHEET

IRONRIDGE XR ROOF MOUNT PLATFORM

KEY FEATURES

- Extruded aluminum components are lightweight for easy handling yet strong enough for most roof mount applications
- Choice of XRL (lightweight) and XRS (standard) rails
- Both XRL and XRS rails come with slots for attaching L-feet and top slots for attaching panel clamps
- XRS rails has slot for bottom mounting clamps
- Hidden internal splice bars are aesthetically pleasing
- Internal splices provide superior strength and flexibility with L-feet placement
- Adjustable L-feet have vertical extension slots for easy adjustability of up to 1-3/8"
- Standoffs provide increased airflow and ventilation and enable precise placement of flashings
- Standoffs come in four standard heights: 3", 4", 6", and 7"
- XR platform compatible with popular flashings including QuickMount and Oatey
- Panel clamps for both top and bottom mounting
- Panel clamps for most popular photovoltaic modules
- Mid-clamp design maximizes panel density
- Ground clips eliminate the need for copper wire between modules
- The XR Roof Mount components are covered with an industry-leading 10 year limited product warranty and a 5 year limited finish warranty
- All XR Roof Mount components are PE certified

The IronRidge XR platform is a reliable, comprehensive, and feature rich photovoltaic mounting solution. Anchored by the XRS (Standard) and XRL (Light) rails, the XR platform includes all of the components necessary for supporting virtually any commercial or residential roof mount installation, regardless of surface material or roof grade.

The XRS and XRL rails are manufactured from extruded aluminum to maximize spans while minimizing weight for improved handling. The graceful curves of the XRS rail will please even the most aesthetically demanding customers. Rails can be extended with the IronRidge patent-pending internal splice bars, providing a strong support connection and ultimate flexibility in footing attachment locations. Installers have a variety of options in attaching IronRidge rails to the roof, including adjustable L-feet, aluminum standoffs, and tilt legs for optimizing power. In addition, IronRidge accommodates modules from most major manufacturers. Top-down panel clamps securely grip the outside frame of the module, freeing the installer from the constraints of panel mounting holes. The XRS rail has an additional side slot to enable the option of bottom mounting. Lastly, grounding clips pierce the anodized rails, creating a ground path through the equipment and eliminating the need to run copper wire between every module.

IronRidge provides a complete technical support system that includes step-by-step installation guides, engineering certification documentation, easy-to-read span charts, and on-line configurator software.

See reverse for product specifications and ordering information. Please contact your local distributor for configuration assistance.

IRONRIDGE

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Receipts Details:

Tender Information: Check , Check Number: 25098
Tender Amount: 1130.00

Receipt Header:

Cashier Id: bsaucier
Receipt Date: 3/23/2012
Receipt Number: 42159

Receipt Details:

Referance ID:	5794	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	1120.00	Charge Amount:	1120.00
Job ID: Job ID: 2012-03-3585-ALTCOMM - Adding Solar panels to roof			
Additional Comments: 425 Fore			

Referance ID:	356	Fee Type:	MISC-Over Payment
Receipt Number:	0	Payment Date:	
Transaction Amount:	10.00	Charge Amount:	10.00
Job ID: Miscellaneous charges			