DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMI



This is to certify that

BOUCHARD ZACHARY & KATIE SIMPSON JTS/Revision Energy LLC

PERMIT ID: 2013-00381

Located at

103 WOLCOTT ST

CBL: 192 K035001

has permission to install 24 Solar electric panels on 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 clsoed-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 procured prior to occupancy.

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

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

City of Portland, N	Maine - Building or Use	Permit Applicat	tion	Permit No:	Issue Date:		CBL:	
389 Congress Street,	04101 Tel: (207) 874-8703	8, Fax: (207) 874-8	8716	2013-00381			192 K035001	
Location of Construction:	Owner Name:		Owne	er Address:			Phone:	
103 WOLCOTT ST	BOUCHARD KATIE SIMP	ZACHARY & SON JTS	103 041	WOLCOTT ST I	PORTLAN	D, ME		
Business Name:	Contractor Name	2:	Contr	actor Address:			Phone	
	Revision Ener	gy LLC		142 Presumpscot street Portland ME 04101			(207) 323-1805	
Lessee/Buyer's Name	Phone:			it Type:			Zone: R3	
				litions - Dwellings				
Past Use: Single Family Home	Proposed Use: Single Family	**	Perm	it Fee: 0 \$230.00	Cost of Work	::),301.00	CEO District: 6	
		FIRE		Approved Demed	INSPECTI Use Group	0N: 2-3 Type: 573		
Proposed Project Description	on:		7	10/1			Ħ	
install 24 Solar electric	panels on roof	Signature:			l Signature:		TA	
			PEDE	STRIAN ACTIVITI	ES DISTRIC	CT (P.A.D.)		
			A	ction: Approved	d 🗌 Appr	roved w/Cor	nditions Denied	
			S	gnature:		Da	te:	
Permit Taken By: LDOBSON	Date Applied For: 02/25/2013			Zoning A	Approva	1		
1. This permit applic	ation does not preclude the	Special Zone or R	eviews	Zoning	Appeal		Historic Preservation	
	meeting applicable State and	Shoreland		Variance		P	Not in District or Landmark	
2. Building permits d septic or electrical	o not include plumbing, work.	Wetland		Miscelland	Miscellaneous [Does Not Require Review	
 Building permits are void if work is not started within six (6) months of the date of issuance. 		Flood Zone		Condition	al Use		Requires Review	
False information r permit and stop all	may invalidate a building work	Subdivision		Interpretat	ion		Approved	
		Site Plan		Approved			Approved w/Conditions	
		Maj 🗌 Minor 🗌 M	wR	Denied			Denied	
		Date: 2/2/1/	13	Date:		Date:	2	
			/					

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 application 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

City of Portland	, Maine - Building or Use	Permit Applica	tion	Permit No:	Issue Date:		CBL:
•	et, 04101 Tel: (207) 874-8703			2013-00381			192 K035001
Location of Construction	on: Owner Name:		Owne	r Address:			Phone:
103 WOLCOTT ST	OTT ST BOUCHARD ZACHARY & KATIE SIMPSON JTS		103 0410	WOLCOTT ST 2	PORTLAND	, ME	
Business Name: Contractor Name		2:	Contr	actor Address:			Phone
	Revision Ener	gy LLC	142 0410	Presumpscot stre	et Portland M	1E	(207) 323-1805
Lessee/Buyer's Name	Phone:		Permi	t Type:			Zone:
			Add	litions - Dwelling	,S		R3
Past Use:	Proposed Use:		Perm	it Fee:	Cost of Work:		CEO District:
Single Family Home	e Single Family	Home		\$230.00	· · · · · · · · · · · · · · · · · · ·	301.00	6
Proposed Project Description: install 24 Solar electric panels on roof			Signature: PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
				ction: Approve	ed Approv	ved w/Con Da	
Permit Taken By:	Date Applied For:			-	Approval		
LDOBSON	02/25/2013			Zoning	Approvar		
1. This permit app	blication does not preclude the	Special Zone or I	Reviews	Zonin	g Appeal		Historic Preservation
	om meeting applicable State and	Shoreland		Variance		P	Not in District or Landmar
2. Building permit septic or electri	ts do not include plumbing, cal work.	Wetland		Miscellar	leous		Does Not Require Review
3. Building permit within six (6) m	ts are void if work is not started nonths of the date of issuance.	Flood Zone		Condition	nal Use		Requires Review
False information permit and stop	on may invalidate a building all work	Subdivision		Interpreta	tion		Approved
		Site Plan			l		Approved w/Conditions
		Maj 🗌 Minor 🗌	MM	Denied			Denied
		Date: 1/24	12	Date:		Date:	
			/				

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SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
			DUONE

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 (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.

REQUIRED INSPECTIONS:

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.

City of Portland, Main	ne - Bu	ulding or Use Permit		Permit No:	Date Applied For:	CBL:
389 Congress Street, 0410	01 Tel:	(207) 874-8703, Fax: (207)) 874-8716	2013-00381	02/25/2013	192 K035001
Location of Construction:		Owner Name:	0	Owner Address:		Phone:
103 WOLCOTT ST		BOUCHARD ZACHARY	& KATI	103 WOLCOTT S	Г	
Business Name:		Contractor Name:	0	Contractor Address:		Phone
		Revision Energy LLC		142 Presumpscot s	treet Portland	(207) 323-1805
Lessee/Buyer's Name		Phone:	F	ermit Type:		
				Additions - Dwell	ings	
Proposed Use:			Proposed	Project Description:		
Single Family Home			install	24 Solar electric pa	nels on roof	
Dept: Zoning S Note:	Status:	Approved	Reviewer:	Marge Schmucka	l Approval D	Oate: 02/26/2013 Ok to Issue: ☑
Dept: Building S Note:	Status:	Approved w/Conditions	Reviewer:	Tammy Munson	Approval D	Date: 02/28/2013 Ok to Issue:
 Separate permits are req pellet/wood stoves, com part of this process. 	uired fo	or any electrical, plumbing, spr hood exhaust systems and fue	rinkler, fire a el tanks. Sepa	larm, HVAC system arate plans may nee	ns, heating appliance a to be submitted f	ces, including for approval as a



General Building Permit Application

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

Location/Address of Construction: 103	Wolcet	+ St	
Total Square Footage of Proposed Structure/A		Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# (C) k 35		(must be owner, lessee or bu VISION Enercy	
192 K 33		t2 Presumpscor St Zip Portland, ME C'	
Lessee/DBA	Owner: (if o Name ZAC Address \()	2 Hol + Land, MC U ifferent from applicant) 2 H Bouchard 3 Wolcott St 2 Zip Portland, ME 04102	Cost of Work: \$20,30) C of O Fee: \$ Historic Review: \$ Planning Amin.: \$ Total Fee: \$
Current legal use (i.e. single family) If vacant, what was the previous use? Proposed Specific use: Is property part of a subdivision?	gle	Number of Resident	tial Units
Project description: 24 Solar ele			
Contractor's name: <u>REVISION EVER</u> Address: <u>APPICANT</u>	9		Email: <u>Jenerensionenercy</u> .
City, State & Zip Who should we contact when the permit is read Mailing address:	iy: Jen		Telephone: Telephone: ZZI - 634 Z
Please submit all of the information	outlined o		list. Failure to

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 oppies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Vivision of the store of the st

I hereby certify that I am the Owner of record of the named property, or that the owner of record appropriates the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree toxoform 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 tepresentative 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:

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

Date:

2013



Professional design, installation and service of renewable energy systems

February 25, 2013

City of Portland 389 Congress Street Portland, ME 04101

RE: ReVision Energy Solar Installation at 103 Wolcott Street

Dear Code Enforcement,

ReVision Energy has been contracted to design and install a solar electric system 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

Bangor 207-570-4222

Liberty 207-589-4171

Portland 207-221-6342

Portsmouth 603-486-7170

www.revisionenergy.com





ARRAY ORIENTATION: 130° (True)

ARRAY PITCH: 37.8° angle

Solar PV modules to be mounted landscape in an array of 4 rows of 6; justified to roof ridge for optimal production.

Project Summary

System	Performance	Cost	Incentives	Net Cost
6.2kw photovoltaic array with American made Suniva modules and SMA 6000 string inverter.	 Produce roughly 7,418 kWhrs of clean, renewable energy annually. Offset roughly 9,643 lbs. of CO2 emissions annually. 	\$20,301 Installed	-(\$6,090) 30% Federal Tax Credit -(\$2,000) Rebate from Efficiency Maine	\$12,210

Economic & Environmental Return on Investment

The system we are proposing is guaranteed to pay for itself by harvesting abundant solar energy to replace finite, polluting and increasingly costly fossil fuels. Once you get 100% of your initial investment returned through government financial incentives and energy savings, the system will continue to deliver a revenue stream for decades to come. Plus, the system will eliminate thousands of pounds of CO2 emissions each year, delivering a powerful environmental benefit.

ReVision Energy's mission is to eliminate over-reliance on fossil fuels and the associated emissions. We are succeeding in this mission by installing solar energy systems that are as robust and reliable as traditional mechanical systems. To ensure maximum performance and longevity in a harsh climate, each system is designed by our in-house engineers (Brown, Dartmouth, MIT, UNH) and installed by our experienced team of certified solar professionals. Please join us in the mission to create a clean energy future--we promise to deliver the peace of mind that comes from knowing you have made one of the best investments of your life.



Major System Components

Based on a professional evaluation of your available roofspace, site configuration, and energy demand, ReVision Energy proposes a roof-mounted photovoltaic array of 6.24 kilowatts (nominal).

The system features these major components:

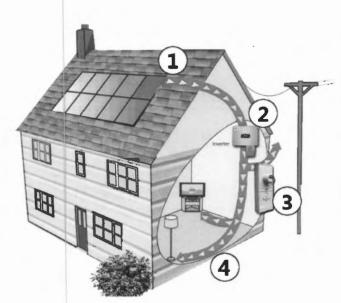
- (24) American-Made Black Framed Suniva 260 watt monosilicon photovoltaic panels; Optimus Series: 260-60-4-100 or equivalent (http://www.suniva.com)
- (260) Feet of Iron Ridge extruded aluminum solar mounting rail with hardware
- (1) Flashed Metallic Junction Box
- (1) SMA Sunny Boy 6000 US grid-tied solar electric inverter (www.sma-america.com)

System Operation

Whenever sun shines on the solar electric panels, they will generate direct current (DC) electricity. That DC electricity is transmitted to an inverter, which then converts it into AC electricity which can be used in your home. Any electric loads (TV, dryer, electronics, etc.) operating while the sun is shining will use available solar electricity. Any excess will flow out to the grid and you will receive a credit for the production.

Whenever the sun is not out, you will continue to purchase grid electricity as you do now. The local utility company will record electricity you feed into the grid. If at the end of the month your generation is greater than your consumption, you will earn a credit on your next bill. You can bank your surplus from month to month for up to a year.

System Diagram



1. Solar array harvests sunshine.

2. Solar Inverter converts DC power from solar panels to AC power for building.

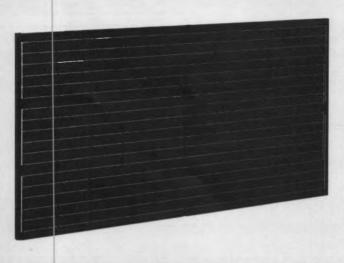
3. Utility measures solar kWh's exported to the grid during sunny periods (credit), and measures the kWh's purchased from the grid at night or during cloudy periods. This is called net-metering.

4. On-site electricity demand is provided locally from solar production, or can be offset by credits previously banked with the utility.

OPTIMUS SERIES: OPT 60 CELL MODULES

High-quality and high-efficiency PV yields sensible solar

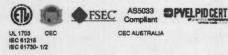




OPTXXX-60-4-1B0 (60 CELL MODULE)

The Optimus® modules consist of Suniva's latest technology: ARTisun® Select. These superior monocrystalline cells are designed and manufactured in the U.S.A. using our proprietary low-cost processing techniques. Engineered with our pioneering ion implantation technology, high power-density Optimus modules provide excellent value, performance and reliability.

Certifications:



Engineering Excellence

 Built exclusively with Suniva's highest-efficiency ARTisun Select cells, providing one of the highest power outputs per square meter at an affordable manufacturing cost

e Brillianke of Solar Made Sensibl

- Sunivals state-of-the art manufacturing facility features the most advanced equipment and technology
- Suniva is a U.S. –based company spun out from the Georgia Tech University Center of Excellence in Photovoltaics (one of only two such research centers in the U.S.)

Features

- Contains the latest ARTisun Select cell technology - over 19%
- Black frame with black backsheet ideal for residential market
- Marine grade aluminum frame with hard anodized coating
- Industry leading linear warranty (10 year warranty on workmanship and materials; 25 year linear performance warranty delivering 80% power at STC)
- Buy America compliant upon request
- Qualifies for U.S. EXIM financing
- System and design services available

Quality & Reliability

Suniva Optimus modules are manufactured and warranted to our specifications assuring consistent high performance and quality worldwide.

- Rigorous quality management
- Performance longevity with advanced polymer backsheet
- Produced in an ISO 9001: 2008
 certified facility
- Passed the most stringent salt spray test (Severity 6) based on IEC 61701
- Passed enhanced stress tests¹ based on IEC 61215 conducted at Fraunhofer ISE²
- Certified PID free²
- · Ask about our validated PAN files

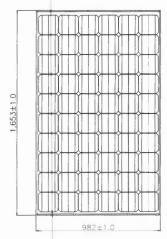
OUR PRODUCTS:

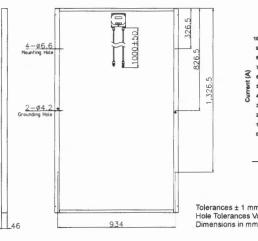
Monocrystalline Modules OPTIMUS SERIES 60 cell OPTIMUS SERIES 72 cell

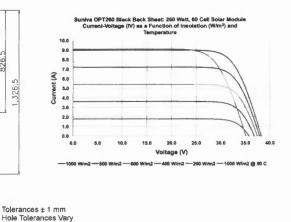
Multicrystalline Modules MV SERIES 60 cell MV SERIES 72 cell Monocrystalline Cells 19%+ efficiency

Balance of Systems Solutions (BOSS) Racking, Inverters, Batteries, Energy Storage Appliances and EV Chargers

OPTIMUS SERIES: OPT 60 CELL MODULES







ELECTRICAL DATA (NOMINAL)

The rated power may only vary by +/- 2.5Wp and all other electrical parameters by \pm 5%	

260
16.02
260-60-4-1B0
30.50
8.52
38.30
9.01

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with AM 1.5 spectra at 25°C.

DIMENSIONS AND WEIGHT

Cells / Module	60 (6x10)		
Module Dimensions	1653 x 982 mm (65.08 x 38.66 in.)		
Module Thickness (Depth)	46 mm (1.81 in.)		
Approximate Weight	18.69 kg (41.22 lbs.)		

CHARACTERISTIC DATA

Type of Solar Cell	High-efficiency Suniva® ARTisun® Select monocrystalline cells of 156 x 156 mm (6 in.)
Frame	Black anodized aluminum alloy
Glass	Tempered (low-iron); anti-reflective coating
Junction Box ³	NEMA IP65 rated; 3 internal bypass diodes
Cable & Connectors	4 mm ² cable with Tyco SolarLok connectors; cable length approximately 1000 mm
Hardware (Available Upon	Grounding screws: (2) #10-32 x 12.7 mm (#10-32 x 0.5 in.)
Request)	Stainless steel flat washers: (4) 5 x 10 x 1 mm (0.2 in. ID x 0.39 in. OD x 0.03 in.)

TEMPERATURE COEFFICIENTS

Voltage	ß, Voc (%/°C)	-0.335
Current	α, lsc (%/°C)	+0.047
Power	γ, Pmax (%/°C)	-0.420
NOCT Avg	(+/- 2 °C)	46.0

LIMITS

Max. System Voltage	1000 VDC for IEC (600 VDC for UL)		
Operating Module Temperature	-40°C to +85°C		
Storm Resistance/Static Load ¹ ,	Tested to IEC 61215 for loads up to 5400 Pa; hail and wind resistant		

Suniva® reserves the right to change the data at any time. View manual at suniva.com. 1UV 90 kWh, TC 400, DH 2000. ²Tests were conducted on module type OPT 60 silver frame. ³Tyco or MC4 - see sales representative.

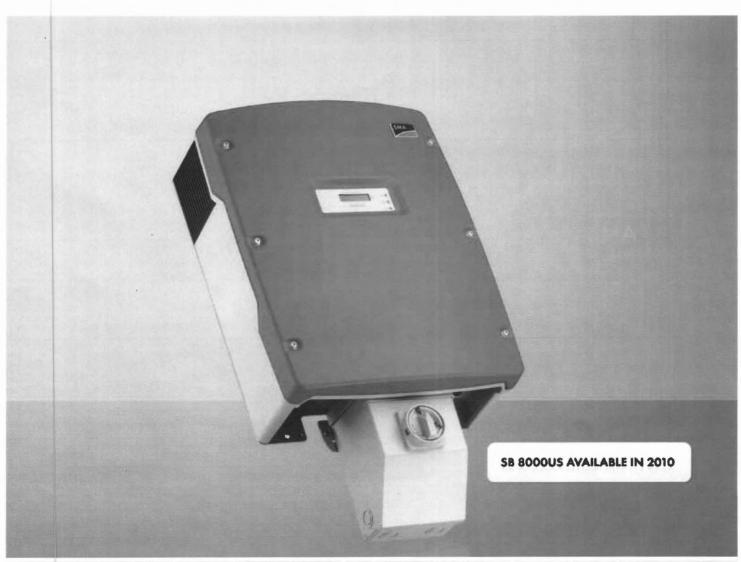
5765 Peachtree Industrial Blvd., Norcross, Georgia 30092 USA Tel: +1 404 477 2700





SUNNY BOY 5000US / 6000US / 7000US / 8000US





- Highest CEC efficiency in its class
 Integrated load-break rated
- lockable DC disconnect switch
 Integrated fused series string combiner
- Sealed electronics enclosure & Opticool[™]
- Comprehensive SMA communications and data collection options
- Ideal for residential or commercial applications
- Sunny Tower compatible
- 10 year standard warranty
- UL 1741/IEEE-1547 compliant



SUNNY BOY 5000US/6000US/7000US/8000US

The best in their class

Our US series inverters utilize our proven technology and are designed specifically to meet IEEE-1547 requirements. Sunny Boy 6000US, Sunny Boy 7000US and Sunny Boy 8000US are also compatible with the Sunny Tower. Increased efficiency means better performance and shorter payback periods. All four models are field-configurable for positive ground systems making them more versatile than ever. Throughout the world, Sunny Boy is the benchmark for PV inverter performance and reliability.

Technical Data

and the second s	SB 5000US	SB 6000US	SB 7000US	SB 8000US
Recommended Maximum PV Power (Module STC)	6250 W	7500 W	8750 W	10000 W
DC Maximum Voltage	600 V	600 V	600 V	600 V
Peak Power Tracking Voltage	250-480 V	250-480 V	250-480 V	300-480 V
DC Maximum Input Current	21 A	25 A	30 A	30 A
Number of Fused String Inputs	3 (inverter), 4 x 20 A (DC disconnect)	3 (inverter), 4 x 20 A (DC disconnect)	3 (inverter), 4 x 20 A (DC disconnect)	3 (inverter), 4 x 20 A (DC disconnect)
V Stort Voltage	300 V	300 V	300 V	365 V
AC Nominal Power	5000 W	6000 W	7000 W	8000 W
AC Maximum Output Power	5000 W	6000 W	7000 W	8000 W
C Maximum Output Current (@ 208, 240, 277 V)	24 A, 21 A, 18 A	29 A, 25 A, 22 A	34 A, 29 A, 25 A	N/A, 32 A, 29 A
AC Nominal Voltage Range	183 - 229 V @ 208 V 211 - 264 V @ 240 V 244 - 305 V @ 277 V	183 - 229 V @ 208 V 211 - 264 V @ 240 V 244 - 305 V @ 277 V	183 - 229 V @ 208 V 211 - 264 V @ 240 V 244 - 305 V @ 277 V	N/A @ 208 V 211 - 264 V @ 240 V 244 - 305 V @ 277 V
AC Frequency: nominal / range	60 Hz / 59.3 - 60.5 Hz	60 Hz / 59.3 - 60.5 Hz	60 Hz / 59.3 - 60.5 Hz	60 Hz / 59.3 - 60.5 Hz
Power Factor (Nominal)	0.99	0.99	0.99	0.99
Peak Inverter Efficiency	96.8%	97.0%	97.1%	96.5%
CEC Weighted Efficiency	95.5% @ 208 V 95.5% @ 240 V 95.5% @ 277 V	95.5% @ 208 V 95.5% @ 240 V 96.0% @ 277 V	95.5% @ 208 V 96.0% @ 240 V 96.0% @ 277 V	N/A @ 208 V 96.0% @ 240 V 96.0% @ 277 V
Dimensions: $W \times H \times D$ in inches	18.4 x 24.1 x 9.5	18.4 × 24.1 × 9.5	18.4 x 24.1 x 9.5	18.4 x 24.1 x 9.5
Weight / Shipping Weight	141 lbs / 148 lbs	141 lbs / 148 lbs	141 lbs / 148 lbs	148 lbs / 152 lbs
Ambiant Temperature Range	-13 to 113 °F	-13 to 113 °F	-13 to 113 °F	-13 to 113 °F
ower consumption at night	0.1 W	0.1 W	0.1 W	0.1 W
Topoldgy	Low frequency transformer, true sinewave	Low frequency transformer, true sinewave	Low frequency transformer, true sinewave	Low frequency transforme true sinewave
Cooling Concept	OptiCool™, forced active cooling	OptiCool™, forced active cooling	OptiCool™, forced active cooling	OptiCool™, forced active cooling
Aounting Location: indoor / outdoor (NEMA 3R)	•/•	•/•	•/•	•/•
CD Display	•	•	•	•
Communication: RS485 / wireless	0/0	0/0	0/0	0/0
Warrahty: 10 years / 15 years / 20 years	•/0/0	•/0/0	•/0/0	•/0/0
Compliance: IEEE-929, IEEE-1547, UL 1741, JL 1998, FCC Part 15 A & B	•		•	
	•		O Optional	

7000

6000

Mamory expansion and data transmission to a PC using a

Tel. +1 916 625 0870 Toll Free +1 888 4 SMA USA www.SMA-America.com

SB 7000US

2000

4000 PAC [W]

3000

5000

SMA America, LLC

Easily

2

UNNYBOY5678-DU

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.



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