DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND
BUILDING PERMIT

This is to certify that

BLACKBURN SUZANNE E & JOAN P KUNIAN
JTS/Revision Energy LLC

Located at

39 PARSONS RD

PERMIT ID: 2013-00383

CBL: 139 F026001

has permission to **Install 2 Solar electric panels adding onto an existing system**
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

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:

Close-in Plumbing/Framing
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, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Date Applied For:	CBL:
2013-00383	02/25/2013	139 F026001

Location of Construction:	Owner Name:	Owner Address:	Phone:
39 PARSONS RD	BLACKBURN SUZANNE E & JO	39 PARSONS RD	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Revision Energy LLC	142 Presumpscot street Portland	(207) 323-1805
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Additions - Dwellings	

Proposed Use:	Proposed Project Description:
Single Family Home	Install 2 Solar electric panels adding onto an existing system

Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 02/26/2013

Note: **Ok to Issue:** ☑

Dept: Building **Status:** Approved w/Conditions **Reviewer:** Tammy Munson **Approval Date:** 02/28/2013

Note: **Ok to Issue:** ☑

1) 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.

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Issue Date:	CBL:
2013-00383		139 F026001

Location of Construction:	Owner Name:	Owner Address:	Phone:
39 PARSONS RD	BLACKBURN SUZANNE E & JOAN P KUNIAN JTS	39 PARSONS RD PORTLAND , ME 04103	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Revision Energy LLC	142 Presumpscot street Portland ME 04101	(207) 323-1805
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Additions - Dwellings	R3
Past Use:	**Proposed Use:**	**Permit Fee:** / **Cost of Work:** / **CEO District:**	
Single Family Home	Single Family Home	$50.00 / $2,480.00 / 5	

FIRE DEPT: ☐ Approved ☐ Denied ☒ N/A

Signature:

INSPECTION: Use Group: R-3 Type: 5B IRC 09

Signature:

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Proposed Project Description:

Install 2 Solar electric panels adding onto an existing system

Permit Taken By:	Date Applied For:
LDOBSON	02/25/2013

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 electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☒ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: 2/26/13	Date:	Date:

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

2013-00383

General Building Permit Application

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: 39 Parsons Road		
Total Square Footage of Proposed Structure/Area	Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot Chart# 139 Block# F Lot# 26	Applicant: (must be owner, lessee or buyer) Name Revision Energy Address 142 Presumpscot St City, State & Zip Portland, ME 04103	Telephone: 221-6342
Lessee/DBA	Owner: (if different from applicant) Name Suzanne Blackburn Address 39 Parsons Road City, State & Zip Portland, ME 04102	Cost of Work: $ 2,480 C of O Fee: $ Historic Review: $ Planning Amin.: $ Total Fee: $

Current legal use (i.e. single family) single 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: Installing 2 solar electric panels adding onto an existing system.

Contractor's name: Revision Energy Email: jen@revisionenergy.com
Address: Applicant
City, State & Zip Telephone:
Who should we contact when the permit is ready: Jen Telephone: 221-6342
Mailing address:

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

RECEIVED FEB 25 2013 Inspections Division City of Portland Maine

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: 2/25/2013

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

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 39 Parsons Road

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

Project Summary

System	Performance	Cost	Incentives	Net Cost
Two high quality Suniva 260-watt photovoltaic panels with Enphase microinverters added to existing array	• Produce roughly 639 kWhrs of clean, renewable energy annually. • Offset roughly 830 lbs. of CO2 emissions annually.	$2,480 Installed	-($744) 30% Federal Tax Credit	$1,736

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.

Based on a professional evaluation of your available roofspace, site configuration, and energy demand, ReVision Energy proposes a roof-mounted photovoltaic array of 0.52 kilowatts (nominal).

The system features these major components:

- (2) Enphase Energy M215 microinverters (http://enphase.com)
- (2) American-Made Suniva 260 watt monosilicon photovoltaic panels; Optimus Series: 260-60-4-100 or equivalent (http://www.suniva.com)

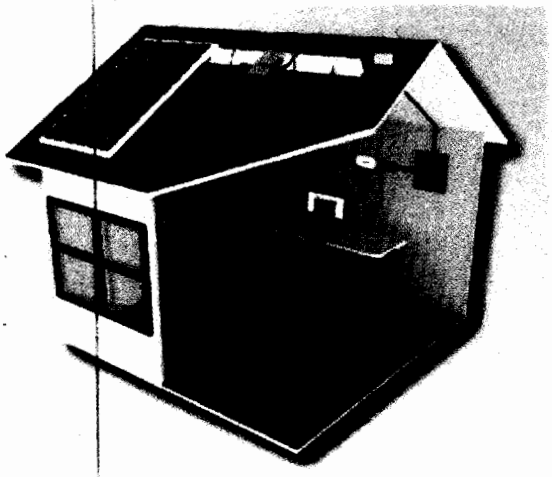
System Operation

Whenever sun shines on the solar electric panels, they will generate direct current (DC) electricity. That DC electricity is converted to AC electricity by individual Enphase inverters, affixed to the underside of each panel. The advantage of microinverters is that the output of the rest of the array is not affected if a portion of panels are shaded.

The AC electricity created by the inverters will then feed directly into the building's load center. Any electric loads (TV, dryer, electronics, etc.) operating while the sun is shining will use available solar electricity, any excess will be exported to the grid.

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 - EnPhase Microinverters

Micro-inverters are installed beneath each rooftop solar panel, maximize energy harvest

2 - Envoy Gateway

Performance of individual panels are send to you as well as ReVision Energy in real-time using the Internet

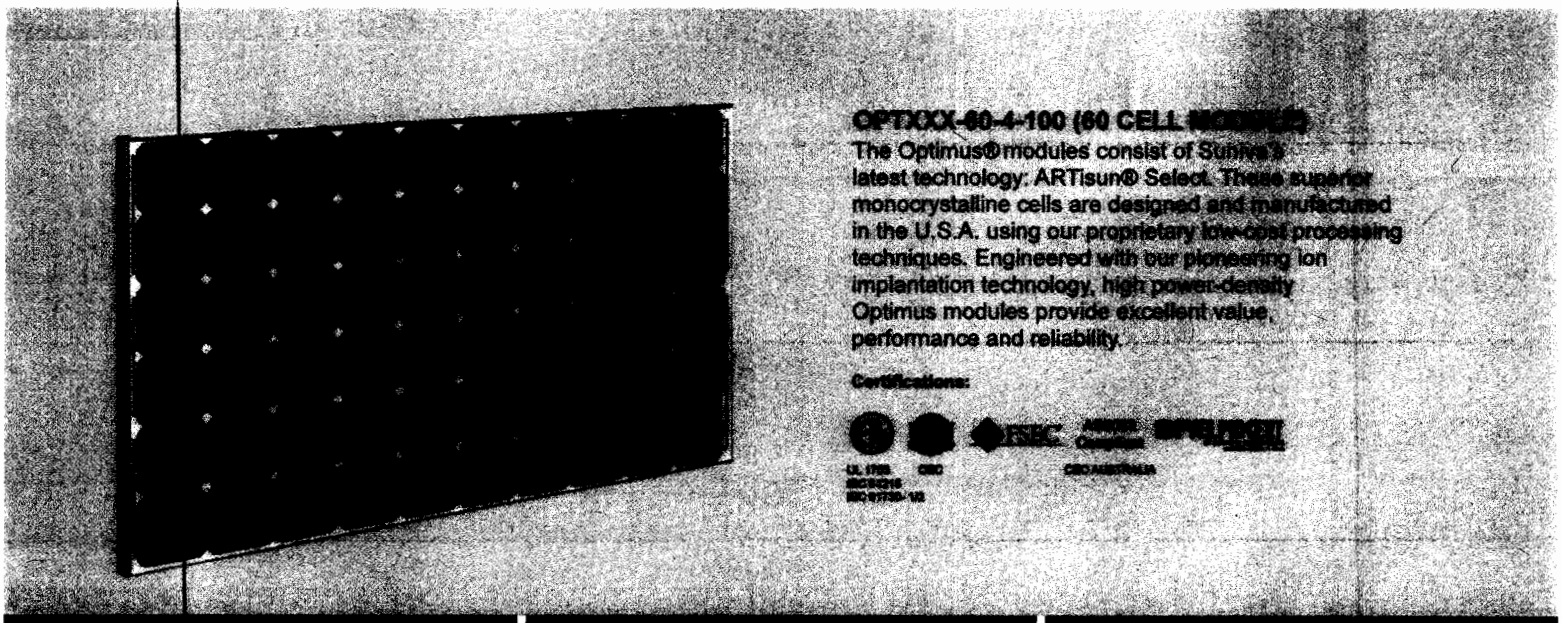
3 - Enlighten Software

Real-time web based monitoring allows you to evaluate system performance. Also available on mobile devices.

Suniva®
The Brilliance of Solar Made Sensible®

High-quality and high-efficiency
PV yields sensible solar

SUNIVA OPTIMUS® SERIES MONOCRYSTALLINE SOLAR MODULES



OPTXXX-60-4-100 (60 CELL MODULES)

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
- Suniva's 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.)

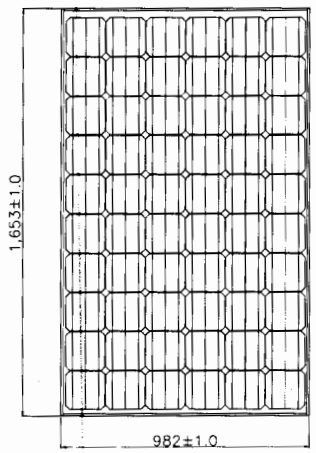
Features

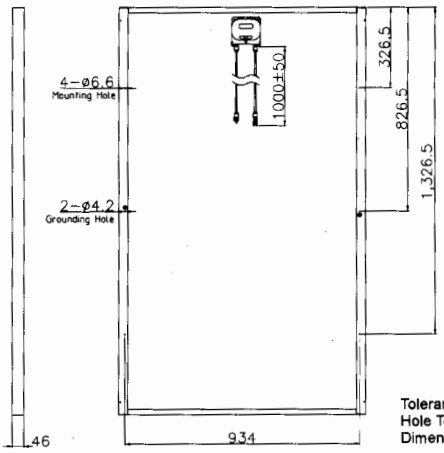
- Contains the latest ARTisun Select cell technology - over 19%
- Positive only power tolerance ensures predictable output
- Marine grade aluminum frame with hard anodized coating
- Industry leading linear warranty (10 year warranty on workmanship and materials, 25 year linear performance warranty delivering 80% power at STC)
- Buy America compliant upon request
- Qualifies for U.S. EXIM financing
- System and design services available

Quality & Reliability

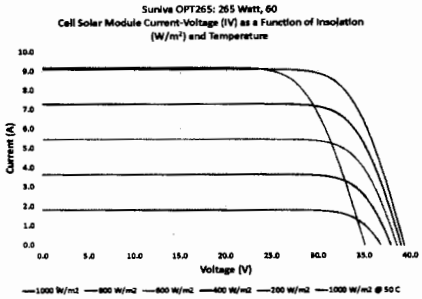
Suniva Optimus modules are manufactured and warranted to our specifications assuring consistent high performance and quality worldwide

- 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 tests based on IEC 61215 conducted at Fraunhofer ISE
- Certified PID free
- Ask about our validated PAN files





Tolerances ± 1 mm
Hole Tolerances Vary
Dimensions in mm



ELECTRICAL DATA (NOMINAL)

The rated power may only vary by -0/+4.99Wp and all other electrical parameters by ± 5%

Power Classification	Pmax (W)	250	255	260	265
Module efficiency	%	15.40	15.71	16.02	16.33
Model Number	OPT	250-60-4-100	255-60-4-100	260-60-4-100	265-60-4-100
Voltage at Max. Power Point	Vmp (V)	29.60	30.00	30.20	30.70
Current at Max. Power Point	Imp (A)	8.44	8.50	8.60	8.64
Open Circuit Voltage	Voc (V)	37.70	37.90	38.10	38.30
Short Circuit Current	Isc (A)	8.98	9.05	9.08	9.12

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 ARTisun® Select monocrystalline cells of 156 x 156 mm (6 in.)
Frame	Silver anodized aluminum alloy; black frame available by custom order
Glass	Tempered (low-iron), anti-reflective coating
Junction Box	Tyco; NEMA IP65 rated; 3 internal bypass diodes
Cable & Connectors	4.0 mm² cable with Tyco SolarLok connectors; cable length approximately 1000 mm
Hardware (Available Upon Request)	Grounding screws: (2) #10-32 12.7 mm (#10-32 x 0.5 in.) Stainless steel flat washers: (4) 5 x 10 x 1 mm (0.2 in. ID x 0.394 in. OD x 0.030 in.)

TEMPERATURE COEFFICIENTS

Voltage	ß, Voc (%/°C)	-0.335
Current	α, Isc (%/°C)	+0.047
Power	γ, Pmax (%/°C)	-0.450
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	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.
[1]UV 90 kWh, TC 400, DH 2000. [2]Tests were conducted on module type OPT 60.

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

Please recycle.

suniva®
The Brilliance of Solar Made Sensible™

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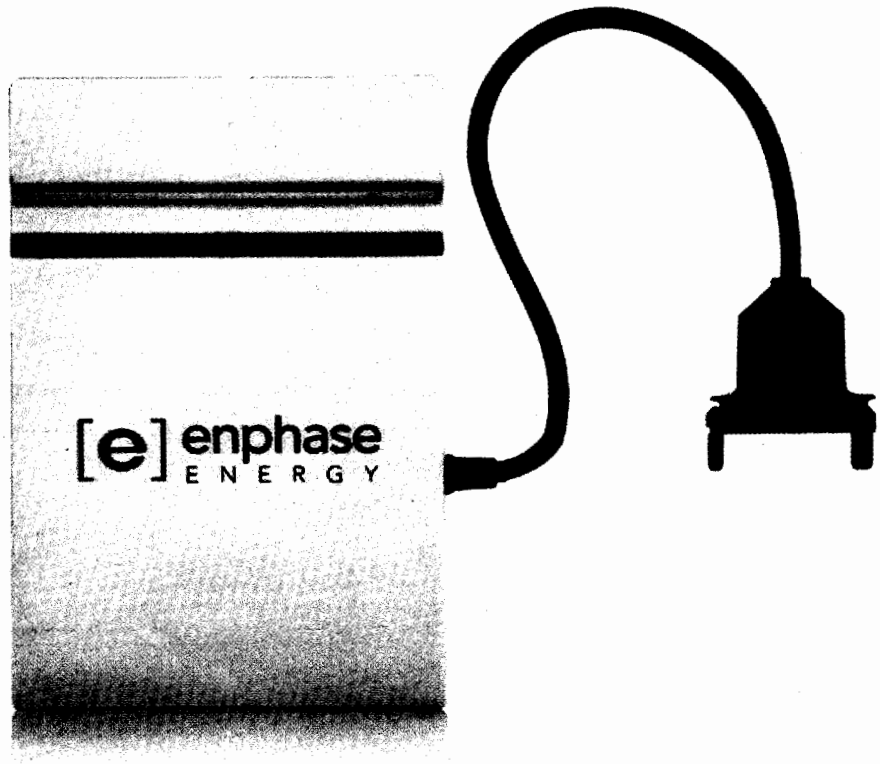
[e] ENPHASE MICROINVERTER M215



The Enphase Energy Microinverter System improves energy harvest, increases reliability, and dramatically simplifies design, installation and management of solar power systems. The Enphase System includes the microinverter, the Envoy Communications Gateway, and Enlighten, Enphase's monitoring and analysis website.

PRODUCTIVE
- Maximum energy production
- Resilient to dust, debris and shading
- Performance monitoring per module

RELIABLE
- System availability greater than 99.8%
- No single point of system failure

SMART
- Quick & simple design, installation and management
- 24/7 monitoring and analysis

SAFE
- Low voltage DC
- Reduced fire risk

C US

MICROINVERTER TECHNICAL DATA

Input Data (DC)	M215-60-2LL-S22/S23 M215-60-2LL-S22-NA/S23-NA (Ontario)
Recommended maximum input power (STC)	260W
Maximum input DC voltage	45V
Peak power tracking range	22V – 36V
Operating range	16V – 36V
Min./Max. start voltage	26.4V/45V
Max. DC short circuit current	15A
Max. input current	10.5A

Output Data (AC)	@208 Vac	@240 Vac
Maximum output power	215W	215W
Nominal output current	1.0 A*	0.9 A*
Nominal voltage/range	208V/183V-229V	240V/211V-264V
Extended voltage/range	208V/179V-232V	240V/206V-269V
Nominal frequency/range	60.0/59.3-60.5	60.0/59.3-60.5
Extended frequency/range	60.0/59.2-60.6	60.0/59.2-60.6
Power factor	>0.95	>0.95
Maximum units per 20A branch circuit	26 (three phase)	17 (single phase)
Maximum output fault current	1.05 Arms, over 3 cycles; 25.2 Apeak, 1.74ms duration	

*Arms at nominal voltage

Efficiency	
CEC weighted efficiency	96.0%
Peak inverter efficiency	96.3%
Static MPPT efficiency (weighted, reference EN 50530)	99.8%
Dynamic MPPT efficiency (fast irradiation changes, reference EN 50530)	99.9%
Night time power consumption	46mW

Mechanical Data	
Operating temperature range	-40°C to +65°C
Dimensions (WxHxD)	17.3 cm x 16.4 cm x 2.5 cm (6.8" x 6.45" x 1.0")*
Weight	1.6 kg (3.5 lbs)
Cooling	Natural convection – no fans
Enclosure environmental rating	Outdoor – NEMA 6

*without mounting bracket

Features	
Compatibility	Pairs with most 60-cell PV modules
Communication	Power line
Warranty	25 years, limited
Compliance	UL1741/IEEE1547, FCC Part 15 Class B CAN/CSA-C22.2 NO. 0-M91, 0.4-04, and 107.1-01

Enphase Energy, Inc.

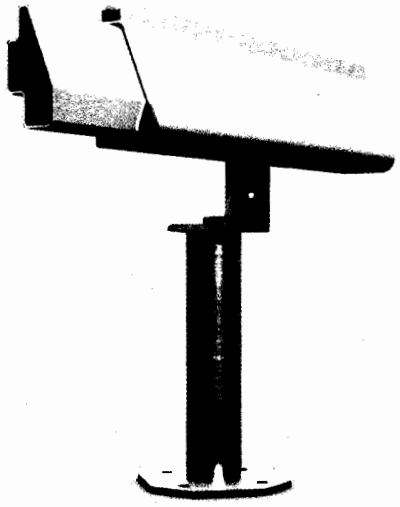
201 1st Street, Petaluma, CA 94952
877 797 4743 www.enphase.com

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

707-459-9523
sales@ironridge.com
www.ironridge.com

SPECIFICATIONS

- XRL/XRS Rail – 6105-T5 extruded anodized aluminum
- XRL/XRS Splice Bars – 6105-T5 extruded aluminum
- Standoffs – 6105-T5 extruded aluminum
- L-feet: 6105-T5 extruded aluminum
- Clamps: 5052-H32 aluminum
- Hardware: 18-8 Stainless Steel

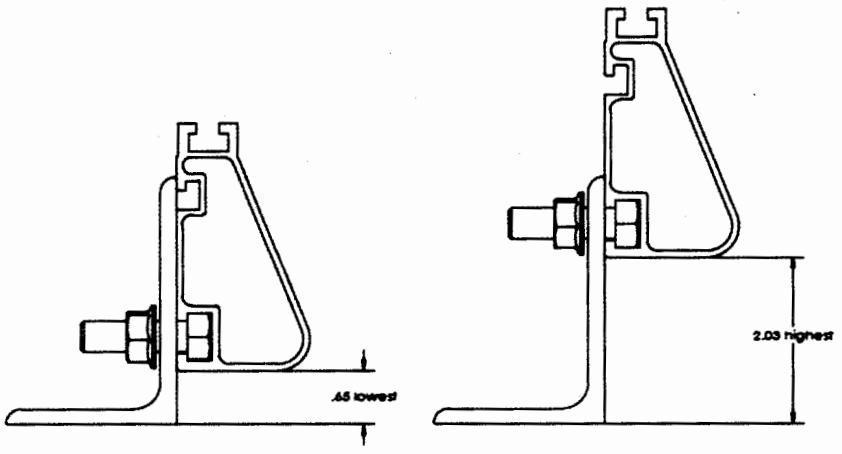
XRS PROPERTIES

- Area = .807136 inches^2
- Centroid relative to output coordinate system origin
  - X = 0.5556
  - Y = 1.4097
  - Z = 120.000
- Moments of Inertia of the area (at the centroid)
  - Lxx = 0.8430
  - Lxy = 0.1117
  - Lxz = 0.0000
  - Lyx = 0.1117
  - Lyy = 0.1822
  - Lyz = 0.0000
  - Lzx = 0.0000
  - Lzy = 0.0000
  - Lzz = 1.0252
- Polar Moment of Inertia
  - At Centroid = 1.0252^4
- Principal Moments of Inertia
  - Ix = 0.1638
  - Iy = 0.8614
- Principal-Part Axes
  - Angle = 99.343 degrees
- Moments of Inertia (output)
  - LXX = 11625.205
  - LXY = 0.5204
  - LXZ = 53.8153
  - LYX = 0.5204
  - LYY = 11623.1909
  - LYZ = 136.5369
  - LZX = 53.8153
  - LZY = 136.5369
  - LZZ = 2.8784

ORDERING INFORMATION

XR Rails		
Part Number	**Description**	**Weight**
51-7000-144a	XRS Standard Rail (1) – 12 feet	11.364 lbs
51-7000-168a	XRS Standard Rail (1) – 14 feet	13.258 lbs
51-7000-192a	XRS Standard Rail (1) – 16 feet	15.152 lbs
51-7000-216a	XRS Standard Rail (1) – 18 feet	17.046 lbs
51-6000-144a	XRL Light Rail (1) – 12 feet	6.288 lbs
51-6000-168a	XRL Light Rail (1) – 14 feet	7.336 lbs
51-6000-192a	XRL Light Rail (1) – 16 feet	8.384 lbs
51-6000-216a	XRL Light Rail (1) – 18 feet	9.432 lbs
29-7000-010	XRS Splice Kit (1)	0.442 lbs
29-7000-000	XRL Splice Kit (1)	0.151 lbs
Panel Clamps		
Part Number	**Description**	**Weight**
29-7000-xxx	End Clamps (4) – depends on panel	.251-.290 lbs
29-7000-10x	Mid Clamps (4) – depends on panel	.213-.251 lbs
29-7000-117	Under Clamps (4)	0.324 lbs
Footing Attachments & Flashings		
Part Number	**Description**	**Weight**
29-7000-017	L-feet Kit (4)	0.872 lbs
51-600x-500	3"-7" Standoffs – Specify L-feet or Tilt leg	.533-.710 lbs
31-1000-001	Oatey Galvanized Flashing 11830 (12)	8.750 lbs
31-1000-000	QuickMount QMSCA12 (12)	13.390 lbs
51-7200-0XX	Tilt Legs (7" – 40")	.0658 lbs/inch
51-7210-000	Tilt Leg Bracket	1.576 lbs
Grounding		
Part Number	**Description**	**Weight**
29-4000-001	WEEB DMC-Clip (100)	0.258 lbs
29-4000-002	WEEB Grounding Lug (100)	12.356 lbs
29-4000-003	WEEB Bonding Jumper (100)	17.614 lbs
29-4000-006	WEEB ACC-PV Wire Clip (100)	0.625 lbs

L-FOOT DIMENSIONS



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