



# CITY OF SARATOGA SPRINGS

## DESIGN REVIEW COMMISSION

City Hall - 474 Broadway  
Saratoga Springs, New York 12866  
Tel: 518-587-3550 x.515 fax: 518-580-9480  
www.saratoga-springs.org

[FOR OFFICE USE]  
\_\_\_\_\_  
(Application #)  
\_\_\_\_\_  
(Date received)

### ARCHITECTURAL / HISTORIC REVIEW APPLICATION

APPLICANT(S)\*

OWNER(S) (If not applicant)

ATTORNEY/AGENT

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ / \_\_\_\_\_

Email \_\_\_\_\_

Identify primary contact person:  Applicant  Owner  Attorney/Agent

\* An applicant must be the property owner, lessee, or one with an option to lease or purchase the property in question.

Applicant's interest in premises:  Owner  Lessee  Under option to lease or purchase

#### PROPERTY INFORMATION

Property Address/Location: \_\_\_\_\_ Tax Parcel #: \_\_\_\_\_  
*(for example: 165.52 - 4 - 37)*

Current Zoning District: \_\_\_\_\_ Property use:  Residential  Non-residential/mixed-use

Type of Review:  Architectural  Historic  Extension/modification (of current approval)

Summary description of proposed action: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Has a previous application been filed with the DRC for this property?  No  Yes – date(s)? \_\_\_\_\_

- App. No.(s)? \_\_\_\_\_

**APPLICATION FEE** (payable to “Commissioner of Finance”):

Residential Structures (principal, accessory)	\$25	Non-residential / mixed-use structures (principal)	\$300
Residential approval – extension	\$25	Non-residential signs, awnings, accessory structures	\$100
Residential - administrative action	\$25	Non-residential approval – extension	\$100
		Non-residential - administrative action	\$100

**\*\*A “complete” application consists of 1 original, 9 hard copies, and 1 electronic copy of application & ALL other materials as required below:**

**New Construction / Additions**

- Color photographs showing site/exterior details of existing structures and adjacent properties
- Site plan, drawn to scale, showing existing & proposed construction, property lines & dimensions, required & proposed setbacks & lot coverage, site features (fences, walks, trees, etc.); on no larger than 2’x3’ sheet – smaller preferred if legible
- Elevation drawings showing design of all sides of existing & proposed construction – label dimensions, colors, materials, lighting (fixture & lamp type, wattage), etc. - include compass bearing & scale; no larger than 2’x3’ sheet – smaller permitted if legible
- Floor plans for proposed structure; on sheet no larger than 2’x3’ – smaller permitted if legible
- Product literature, specifications and samples of proposed materials and colors

**Change in exterior building materials** (windows, doors, roof, siding, etc.), or color (in non-residential districts only)

- Color photographs showing site/exterior details of existing structures and that illustrate affected features
- Elevation drawings showing all sides of existing & proposed construction – label dimensions, colors, materials, lighting (fixture & lamp type, wattage), etc. - include compass bearing & scale; no larger than 2’x3’ sheet – smaller permitted if legible
- Product literature, specifications and samples of proposed materials and colors

**Within front yard setbacks in Historic Districts only** (Front setbacks: UR-1 & INST-HTR=30’; UR-4=25’; UR-2, UR-3 & NCU-1 = 10’)

- Installation, removal or change in material of drive- and walkways
- Installation or removal of architectural, sculptural or vegetative screening over 3’ in height
- Installation of accessory utility structures or radio/satellite transmission/reception devices (more than 2’ diameter)

For any of above:

- Color photographs showing site/exterior details of existing structures, and of adjacent properties
- Site plan showing existing & proposed construction: include property lines & dimensions, required & proposed setbacks & lot coverage, site features (fences, walks, trees, etc.) street names, compass bearing & scale; no larger than 2’x3’ sheet – smaller preferred if legible
- Product literature, specifications and samples of proposed materials and colors

**Signage / Awnings**

- Color photographs showing site/exterior details of existing structures, and adjacent properties
- Plan showing location of proposed sign/awning structure on building/premises: no larger than 11”x17”
- Scaled illustration of proposed sign/awning structure and lettering (front view & profile): include all dimensions of structure; type, dimensions and style of lettering or logo; description of colors, materials, mounting method and hardware
- Descriptions, specifications of proposed lighting including fixture & lamp type, wattage, mounting method, and location
- Product literature, specifications and samples of proposed materials and colors

**Demolition**

- Color photographs showing site/exterior details of existing structures, and of adjacent properties
- Site plan showing existing and any proposed structures - include dimensions, setbacks, street names, compass bearing, and scale
- Written description of reasons for demolition and, in addition:
  - For structures of “architectural/historical significance”, demonstrate “good cause” why structure cannot be preserved
  - For structures in an architectural district that might be eligible for listing on National Register of Historic Places, or for a “contributing” structure in a National Register district (contact City staff), provide plans for site development following demolition - include a timetable and letter of credit for project completion

**Telecommunication facilities**

- Color photographs showing site/existing structures, and of adjacent properties
- Site plan showing existing and proposed structures: include dimensions, setbacks, street names, compass bearing, and scale
- Scaled illustration of proposed structures: include all dimensions; colors, materials, lighting, mounting details
- Consult Article 240-12.22 of the City’s Zoning Ordinance and City staff to ensure compliance with requirements for visual impact assessment and existing and proposed vegetative screening

Request for extension of current approval

- Identify date of original DRC approval: \_\_\_\_\_ Current expiration date: \_\_\_\_\_ Org. App. No. \_\_\_\_\_
- Describe why this extension is necessary and whether any significant changes have occurred either on the site or in the neighborhood.

SEQR Environmental Assessment Form

Applicants proposing the following must complete "Part I" of the SEQR Short Environmental Assessment Form (available here: [http://www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/seafpartone.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/seafpartone.pdf)):

- Construction or expansion of a multi-family residential structure (4 units +)
- Construction or expansion (exceeding 4,000 sq. ft. gross floor area) of a principal or accessory non-residential structure
- Telecommunications facility, radio antennae, satellite dishes
- Demolition

Disclosure

Does any City officer, employee or family member thereof have a financial interest (as defined by General Municipal Law Section 809) in this application?

- No  Yes - If yes, a statement disclosing the name, residence, nature, and extent of this interest must be filed with this application.

Certification

I/we, the property owner(s), or purchaser(s)/lessee(s) under contract, of the land in question, hereby request an appearance before the Design Review Commission.

By the signature(s) attached hereto, I/we certify that the information provided within this application and accompanying documentation is, to the best of my/our knowledge, true and accurate. I/we further understand that intentionally providing false or misleading information is grounds for immediate denial of this application.

I/we hereby authorize the members of the Design Review Commission and designated City staff to enter the property associated with this application for purposes of conducting any necessary site inspections relating to this application.

Furthermore, I/we agree to meet all requirements under Article VII for Historic Review or Article VIII for Architectural Review of the Zoning Code of the City of Saratoga Springs.

\_\_\_\_\_ Date: \_\_\_\_\_  
 (applicant signature)

\_\_\_\_\_ Date: \_\_\_\_\_  
 (applicant signature)

If applicant is not the currently the owner of the property, the current owner must also sign.

Owner Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Owner Signature: \_\_\_\_\_ Date: \_\_\_\_\_

FOR OFFICE USE ONLY

This application has been reviewed by the Zoning Enforcement Officer and is being forwarded to the Commission.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

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*John H. Minicello* Trustee

\_\_\_\_\_  
(applicant signature)

Date: August 22, 2016

\_\_\_\_\_  
(applicant signature)

Date: \_\_\_\_\_

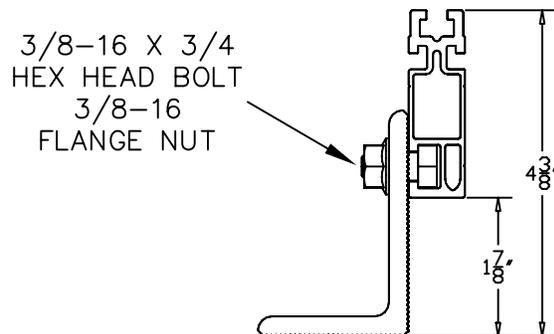
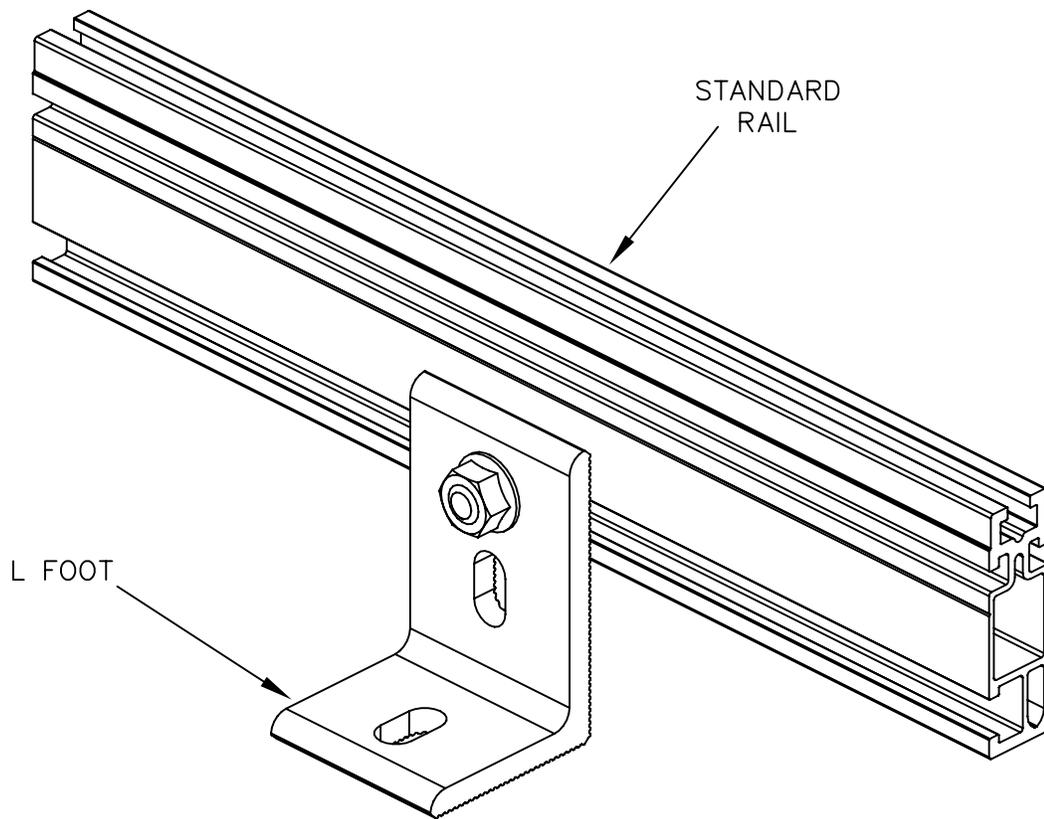
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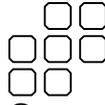
Owner Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Owner Signature: \_\_\_\_\_

Date: \_\_\_\_\_



 **UNIRAC**<sup>®</sup>

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1411 BROADWAY BLVD NE  
ALBUQUERQUE, NM 87102 USA

UNIRAC.COM

URASSY-0002

**Installation Detail**

**SolarMount Rail  
L-Foot Connection**







# SUNNY BOY 5.0-US / 6.0-US

SB 5.0-1SP-US-40 / SB 6.0-1SP-US-40



**WORLD'S FIRST  
SECURE POWER SUPPLY**



OUTLET NOT INCLUDED

### Value-Added Improvements

- World's first Secure Power Supply now offers up to 2,000 W
- Full grid management capabilities ensures a utility-compliant solution for any market

### Reduced Labor

- New Installation Assistant with direct access via smartphone minimizes time in the field
- Integrated disconnect simplifies equipment stocking and speeds installation

### Unmatched Flexibility

- SMA's proprietary OptiTrac™ Global Peak technology mitigates shade with ease
- Multiple independent MPPTs accommodate hundreds of stringing possibilities

### Trouble-Free Servicing

- Two-part enclosure concept allows for simple, expedited servicing
- Enhanced AFCI technology reduces false tripping while improving sensitivity in real arcs, greatly reducing unneeded service calls

## SUNNY BOY 5.0-US/6.0-US

Reduce costs across your entire residential business model

The residential PV market is changing rapidly, and we understand that your bottom line matters more than ever. That's why we've designed a superior residential solution that will help you decrease costs throughout all stages of your business operations. The Sunny Boy 5.0-US/6.0-US join the SMA lineup of field-proven solar technology backed by the world's #1 service team, along with a wealth of improvements. Simple design, improved stocking and ordering, value driven sales support and streamlined installation are just some of the ways that SMA is working to help your business operate more efficiently.

# BOTTOM LINE SAVINGS. FROM THE FACTORY TO THE FIELD.

SMA understands that hard and soft cost reductions must be achieved in order to maintain a competitive presence in the market. That's why we've designed a superior residential solution that will help you decrease costs throughout all stages of your business model.



## SIMPLE, FLEXIBLE DESIGN

Speed the completion of customer proposals and maximize the efficiency of your design team with the Sunny Boy 5.0-US/6.0-US, which provides a new level of flexibility in system design by offering:

- » Hundreds of stringing configurations
- » Multiple independent MPPTs
- » SMA's proprietary OptiTrac™ Global Peak shade mitigation technology
- » Diverse application options including on- and off-grid compatibility



## VALUE DRIVEN SALES ENABLEMENT

SMA wants to enable your sales team by arming them with an abundance of feature/benefit support. Show your customers the value of the Sunny Boy 5.0-US/6.0-US by utilizing:

- » Secure Power Supply, now with 2,000 W of opportunity power in the event of a grid outage, as an increased value-add or upsell opportunity
- » SMA's 30 year history and status as the #1 global inverter manufacturer instills homeowners with peace of mind and the long-term security they demand from a PV investment
- » An economical solution for shade mitigation and the challenges of complex roofs
- » Complete grid-management capabilities, ensuring a utility-compliant solution for customers operating in any market





#### IMPROVED STOCKING AND ORDERING

Ensure that your back office business operations run smoothly and succinctly while mitigating potential errors. The Sunny Boy 5.0-US/6.0-US can help achieve cost savings in these areas by providing:

- » An integrated DC disconnect that simplifies equipment stocking and allows for a single inverter part number
- » Accurate order processing by eliminating the potential errors associated with incompatible disconnects provided to your installation team



#### STREAMLINED INSTALLATION AND COMMISSIONING

Expedite your operations in the field by taking advantage of the new Sunny Boy's installer-friendly feature set including:

- » Direct access via smartphone and utilization of SMA's Installation Assistant, which minimizes time/labor spent in the field and speeds the path to commissioning
- » Improved communication capabilities that remove the need to install additional equipment
- » Integrated DC disconnect that simplifies onsite logistics and eliminates the need to install a separate disconnect unit, speeding overall installation time



#### SUPERIOR SERVICE

SMA understands the factors that contribute to lifetime PV ownership cost, that's why the Sunny Boy 5.0-US/6.0-US was designed for maximum reliability and backstopped by an unmatched service offering. Benefit from:

- » Enhanced AFCI technology that improves resistance against false tripping while improving sensitivity in detecting real arcs, which greatly reduces unneeded service calls and increases safety
- » The new Sunny Boy's two-part enclosure concept that separates the connection unit from the power unit, which allows for simple, expedited servicing
- » The #1 service team in the PV industry, as recognized by IMS research, with experience servicing an installed base of more than 40 GW



## SAME NAME, NEW GAME

The Sunny Boy 5.0-US and 6.0-US are once again raising the bar by offering improved performance, enhanced features, and most importantly, an economical approach to residential solar. Your business model is a value chain. The new Sunny Boy-US series can help you stay competitive in an increasingly price sensitive residential market by driving down costs across all of your business operations.



Technical data	Sunny Boy 5.0-US		Sunny Boy 6.0-US	
	208 V	240 V	208 V	240 V
<b>Input (DC)</b>				
Max usable DC power	5300 W	5300 W	5500 W	6300 W
Max. DC Voltage	600 V			
Rated MPP Voltage range	220 - 480 V			
MPPT operating voltage range	100 - 550 V			
Min. DC voltage / start voltage	100 V / 125 V			
Max. operating input current per MPPT	10 A			
Number of MPPT tracker / string per MPPT tracker	3 / 1			
<b>Output (AC)</b>				
AC nominal power	5000 W	5000 W	5200 W	6000 W
Max. AC apparent power	5000 VA	5000 VA	5200 VA	6000 VA
Nominal voltage / adjustable	208 V / ●	240 V / ●	208 V / ●	240 V / ●
AC voltage range	183 - 229 V	211 - 264 V	183 - 229 V	211 - 264 V
AC grid frequency	60 Hz / 50 Hz			
Max. output current	24.0 A	24.0 A	25.0 A	25.0 A
Power factor (cos φ)	1			
Output phases / line connections	1 / 2			
Harmonics	< 4 %			
<b>Efficiency</b>				
Max. efficiency	97.2 %	97.5 %	97.2 %	97.6 %
CEC efficiency	96.5 %	97 %	96.5 %	97 %
<b>Protection devices</b>				
DC disconnect device	●			
DC reverse polarity protection	●			
Ground fault monitoring / Grid monitoring	●			
AC short circuit protection	●			
All-pole sensitive residual current monitoring unit (RCMU)	●			
Arc fault circuit interrupter (AFCI)	●			
Protection class / overvoltage category	I / IV			
<b>General data</b>				
Dimensions (W / H / D) in mm (in)	535 x 730 x 198 (21.1 x 28.5 x 7.8)			
Packaging Dimensions (W / H / D) in mm (in)	600 x 800 x 300 (23.6 x 31.5 x 11.8)			
Weight	26 kg (57 lb)			
Packaging weight	30 kg (66 lb)			
Operating temperature range	- 25 °C ... +60 °C			
Noise emission (typical)	< 25 dB(A)			
Internal power consumption at night	< 5 W			
Topology	Transformerless			
Cooling concept	Convection			
<b>Features</b>				
Secure Power Supply	●			
Display (2 x 16 characters)	●			
Interfaces: Ethernet / WLAN	● / ●			
Sensor module / External WLAN antenna	○ / ○			
Warranty: 10 / 15 / 20 years	● / ○ / ○			
Certificates and approvals	UL 1741, UL 1998, UL 1699B, IEEE1547, FCC Part 15 (Class A & B), CAN/CSA V22.2 107.1-1			

● Standard features ○ Optional features – Not available Data at nominal conditions NOTE: US inverters ship with gray lids.

Type designation SB 5.0-1SP-US-40 SB 5.0-1SP-US-40 SB 6.0-1SP-US-40 SB 6.0-1SP-US-40

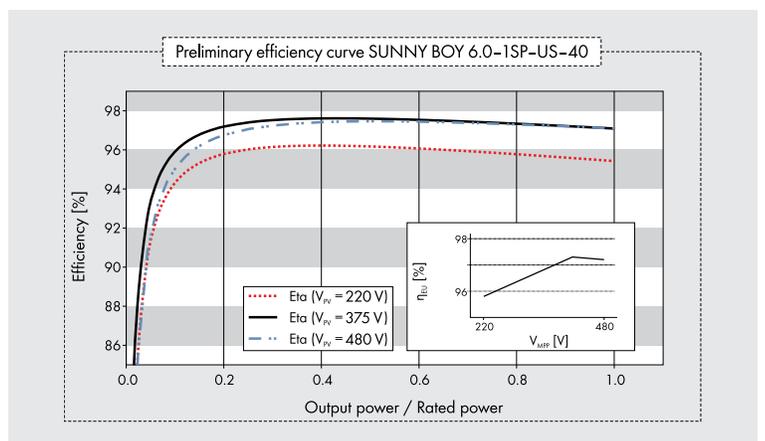
**Accessories**



Sensor module  
MD.SEN-US-40



External WLAN antenna  
EXTANT-US-40



**SM SOLAR MOUNT**



**UNIRAC**  
A HILTI GROUP COMPANY

SOLARMOUNT defined the standard in solar racking. New enhancements are designed to get installers off the roof faster than ever before. Components are pre-assembled and optimized to reduce installation steps and save labor time. Our new grounding & bonding process eliminates copper wire and grounding straps to reduce costs. Utilize the microinverter mount with a wire management clip for an easier installation.



**SOLARMOUNT INTEGRATED BONDING ADVANTAGE**

WITH SYSTEM GROUNDING THROUGH ENPHASE MICROINVERTERS AND TRUNK CABLES

**LOSE ALL THE COPPER & LUGS**



**UL2703**  
LISTED

**BONDING & GROUNDING  
MECHANICAL LOADING  
SYSTEM FIRE CLASSIFICATION**  
CLASS A - TYPE 1, 2, 3 & 10 MODULES



**ROOF MOUNT SYSTEMS**

**GET OFF THE ROOF FASTER THAN EVER BEFORE**

OPTIMIZED COMPONENTS • VERSATILITY • AVAILABILITY • DESIGN TOOLS

## OPTIMIZED COMPONENTS

### INTEGRATED BONDING & PRE-ASSEMBLED PARTS

Components are pre-assembled and optimized to reduce installation steps and save labor time. Our new grounding & bonding process eliminates copper wire and grounding straps or bonding jumpers to reduce costs. Utilize the microinverter mount with a wire management clip for an easier installation.

## VERSATILITY

### ONE PRODUCT - MANY APPLICATIONS

Quickly set modules flush to the roof or at a desired tilt angle. Change module orientation to portrait or landscape while securing a large variety of framed modules on flat, low sloped or steep pitched roofs. Available in mill, clear and dark anodized finishes to outperform your projects financial and aesthetic aspirations.

## AVAILABILITY

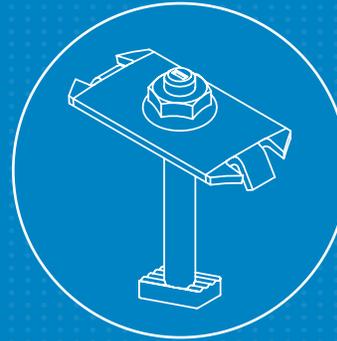
### NATIONWIDE NETWORK

Unirac maintains the largest network of stocking distributors for our racking solutions. Our partners have distinguished their level of customer support, availability, and overall value, thereby providing the highest level of service to users of Unirac products. Count on our partners for fast and accurate delivery to meet your project objectives. Visit Unirac.com for a list of distributors.

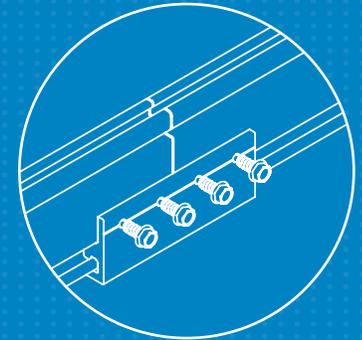
## AUTOMATED DESIGN TOOL

### DESIGN PLATFORM AT YOUR SERVICE

Creating a bill of materials is just a few clicks away with U-Builder, a powerful online tool that streamlines the process of designing a code compliant solar mounting system. Save time by creating a user profile, and recall preferences and projects automatically when you log in. You will enjoy the ability to share projects with customers; there's no need to print results and send to a distributor, just click and share.



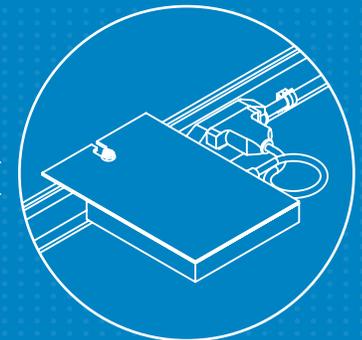
INTEGRATED BONDING MIDCLAMP



INTEGRATED BONDING SPLICE BAR



INTEGRATED BONDING L-FOOT w/ T-BOLT



INTEGRATED BONDING MICROINVERTER MOUNT w/ WIRE MANAGEMENT

## UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT



### TECHNICAL SUPPORT

Unirac's technical support team is dedicated to answering questions & addressing issues in real time. An online library of documents including engineering reports, stamped letters and technical data sheets greatly simplifies your permitting and project planning process.

### CERTIFIED QUALITY PROVIDER

Unirac is the only PV mounting vendor with ISO certifications for 9001:2008, 14001:2004 and OHSAS 18001:2007, which means we deliver the highest standards for fit, form, and function. These certifications demonstrate our excellence and commitment to first class business practices.

### BANKABLE WARRANTY

As a Hilti Group Company, Unirac has the financial strength to back our products and reduce your risk. Have peace of mind knowing you are receiving products of exceptional quality. SOLARMOUNT is covered by a 10-year limited product warranty and a 5-year limited finish warranty.

**PROTECT YOUR REPUTATION WITH QUALITY RACKING SOLUTIONS BACKED BY ENGINEERING EXCELLENCE AND A SUPERIOR SUPPLY CHAIN**



# Sunmodule<sup>+</sup>™

## SW 240 mono / Version 2.0

### World-class quality

Fully-automated production lines and seamless monitoring of the process and material ensure the quality that the company sets as its benchmark for its sites worldwide.

### SolarWorld Plus-Sorting

Plus-Sorting guarantees highest system efficiency. SolarWorld only delivers modules that have greater than or equal to the nameplate rated power.

### 25 years linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance degradation of 0.7% p.a. in the course of 25 years, a significant added value compared to the two-phase warranties common in the industry. In addition, SolarWorld is offering a product warranty, which has been extended to 10 years.\*

\*in accordance with the applicable SolarWorld Limited Warranty at purchase.  
[www.solarworld.com/warranty](http://www.solarworld.com/warranty)



# Sunmodule<sup>+</sup>™

## SW 240 mono / Version 2.0

SW-02-5003US 07-2012

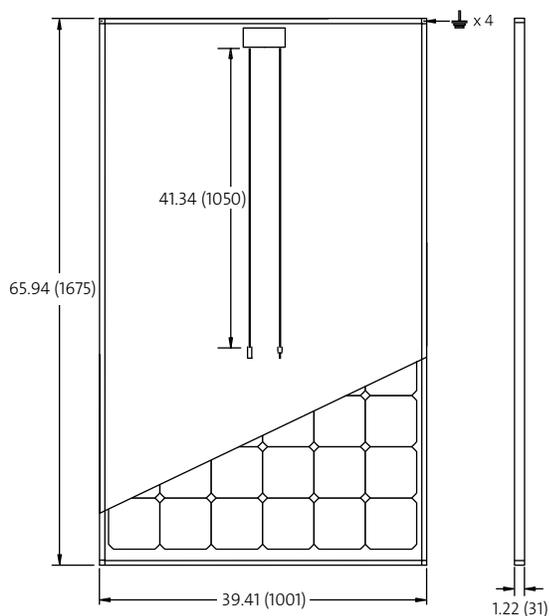
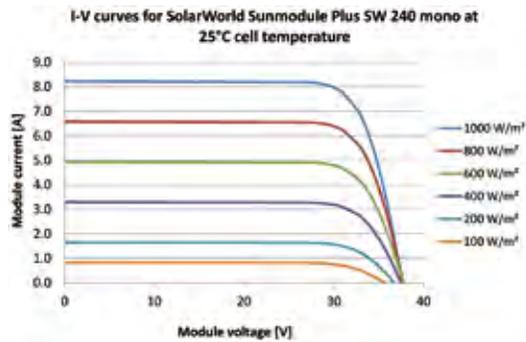
### PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)\*

		SW 240
Maximum power	$P_{max}$	240 Wp
Open circuit voltage	$V_{oc}$	37.6 V
Maximum power point voltage	$V_{mpp}$	30.6 V
Short circuit current	$I_{sc}$	8.22 A
Maximum power point current	$I_{mpp}$	7.87 A

\*STC: 1000W/m<sup>2</sup>, 25°C, AM 1.5

### THERMAL CHARACTERISTICS

NOCT	46 °C
TC $I_{sc}$	0.004 %/K
TC $V_{oc}$	-0.30 %/K
TC $P_{mpp}$	-0.45 %/K
Operating temperature	-40°C to 85°C



### PERFORMANCE AT 800 W/m<sup>2</sup>, NOCT, AM 1.5

		SW 240
Maximum power	$P_{max}$	175.4 Wp
Open circuit voltage	$V_{oc}$	34.2 V
Maximum power point voltage	$V_{mpp}$	27.9 V
Short circuit current	$I_{sc}$	6.63 A
Maximum power point current	$I_{mpp}$	6.30 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200W/m<sup>2</sup>, 95% (+/-3%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.

### COMPONENT MATERIALS

Cells per module	60
Cell type	Mono crystalline
Cell dimensions	6.14 in x 6.14 in (156 mm x 156 mm)
Front	tempered glass (EN 12150)
Frame	Clear anodized aluminum
Weight	46.7 lbs (21.2 kg)

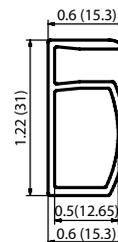
### SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II	1000 V	
Max. system voltage USA NEC	600 V	
Maximum reverse current	16 A	
Number of bypass diodes	3	
UL Design Loads*	Two rail system	113 psf downward 64 psf upward
UL Design Loads*	Three rail system	170 psf downward 64 psf upward
IEC Design Loads*	Two rail system	113 psf downward 50 psf upward

\*Please refer to the Sunmodule installation instructions for the details associated with these load cases.

### ADDITIONAL DATA

Power tolerance <sup>2)</sup>	-0 Wp / +5 Wp
J-Box	IP65
Connector	MC4
Module efficiency	14.31 %
Fire rating (UL 790)	Class C



#### VERSION 2.0 FRAME

- Compatible with "Top-Down" mounting methods
- ⚡ Grounding Locations: 4 corners of the frame

1) Sunmodules dedicated for the United States and Canada are tested to UL 1703 Standard and listed by a third party laboratory. The laboratory may vary by product and region. Check with your SolarWorld representative to confirm which laboratory has a listing for the product.

2) Measuring tolerance traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).

3) All units provided are imperial. SI units provided in parentheses.