



HiKuBlack Mono PERC
BLACK FRAME ON BLACK BACKSHEET
F23 Frame
380 W ~ 405 W
CS3N-380 | 385 | 390 | 395 | 400 | 405MS

- MORE POWER**
- 405 W Module power up to 405 W
Module efficiency up to 19.9 %
 - Lower LCOE & BOS cost
 - Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation
 - Better shading tolerance

- MORE RELIABLE**
- Minimizes micro-crack impacts
 - Heavy snow load up to 8100 Pa, enhanced wind load up to 6000 Pa*

- 25 Years Industry Leading Product Warranty on Materials and Workmanship*
- 25 Years Linear Power Performance Warranty*

1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.55%
*Subject to the terms and conditions contained in the applicable Canadian Solar Limited Warranty Statement. Also this 25-year limited product warranty is available only for products installed and operating on residential rooftops in certain regions.

MANAGEMENT SYSTEM CERTIFICATES*
ISO 9001: 2015 / Quality management system
ISO 14001: 2015 / Standards for environmental management system
ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES*
IEC 61215 / IEC 61730 / CE
FSEC (US Florida) / UL 61730 / IEC 61701 / IEC 62716

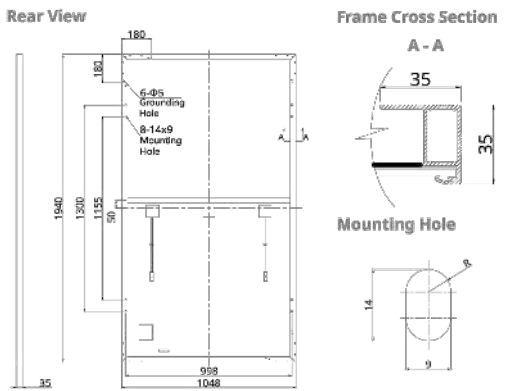
* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your Product and applicable in the regions in which the products will be used.

CSI SOLAR (USA) CO., LTD. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 63 GW of premium-quality solar modules across the world.

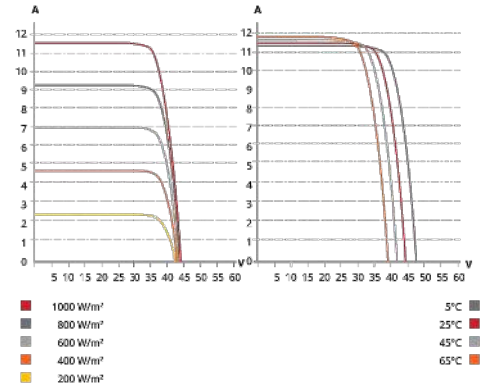
* For detailed information, please refer to Installation Manual.

CSI SOLAR (USA) CO., LTD.
1350 Treat Blvd. Suite 500, Walnut Creek, CA 94598, USA | www.csisolar.com/na | service.ca@csisolar.com

ENGINEERING DRAWING (mm)



CS3N-400MS / I-V CURVES



| ELECTRICAL DATA STC* | | | | | | |
|------------------------------|-------------------------|---------|---------|---------|---------|---------|
| CS3N | 380MS | 385MS | 390MS | 395MS | 400MS | 405MS |
| Nominal Max. Power (Pmax) | 380 W | 385 W | 390 W | 395 W | 400 W | 405 W |
| Opt. Operating Voltage (Vmp) | 36.4 V | 36.6 V | 36.8 V | 37.0 V | 37.2 V | 37.4 V |
| Opt. Operating Current (Imp) | 10.44 A | 10.52 A | 10.60 A | 10.68 A | 10.76 A | 10.83 A |
| Open Circuit Voltage (Voc) | 43.7 V | 43.9 V | 44.1 V | 44.3 V | 44.5 V | 44.7 V |
| Short Circuit Current (Isc) | 11.26 A | 11.32 A | 11.38 A | 11.44 A | 11.50 A | 11.56 A |
| Module Efficiency | 18.7% | 18.9% | 19.2% | 19.4% | 19.7% | 19.9% |
| Operating Temperature | -40°C ~ +85°C | | | | | |
| Max. System Voltage | 1000V (UL) | | | | | |
| Module Fire Performance | TYPE 2 (UL 61730 1000V) | | | | | |
| Max. Series Fuse Rating | 20 A | | | | | |
| Application Classification | Class A | | | | | |
| Power Tolerance | 0 ~ + 10 W | | | | | |

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

| MECHANICAL DATA | |
|------------------------------------|---|
| Specification | Data |
| Cell Type | Mono-crystalline |
| Cell Arrangement | 132 [2 X (11 X 6)] |
| Dimensions | 1940 X 1048 X 35 mm (76.4 X 41.3 X 1.38 in) |
| Weight | 23.4 kg (51.6 lbs) |
| Front Cover | 3.2 mm tempered glass |
| Frame | Anodized aluminium alloy |
| J-Box | IP68, 3 bypass diodes |
| Cable | 12 AWG (UL) |
| Cable Length (Including Connector) | Portrait: 400 mm (15.7 in) (+) / 280 mm (11.0 in) (-) (supply additional cable jumper: 2 lines/pallet; landscape: 1250 mm (49.2 in)*) |
| Connector | T4 or MC4 series |
| Per Pallet | 30 pieces |
| Per Container (40' HQ) | 720 pieces |

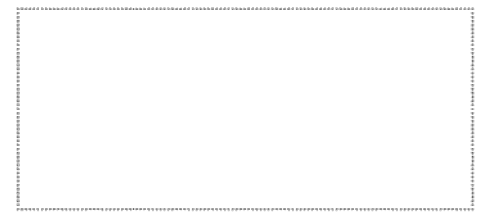
* For detailed information, please contact your local Canadian Solar sales and technical representatives.

| ELECTRICAL DATA NMOT* | | | | | | | | | | |
|------------------------------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| CS3N | 380MS | 385MS | 390MS | 395MS | 400MS | 405MS | | | | |
| Nominal Max. Power (Pmax) | 284 W | 288 W | 291 W | 295 W | 299 W | 303 W | | | | |
| Opt. Operating Voltage (Vmp) | 34.0 V | 34.2 V | 34.4 V | 34.6 V | 34.7 V | 34.9 V | | | | |
| Opt. Operating Current (Imp) | 8.35 A | 8.42 A | 8.48 A | 8.54 A | 8.60 A | 8.66 A | | | | |
| Open Circuit Voltage (Voc) | 41.2 V | 41.4 V | 41.6 V | 41.8 V | 41.9 V | 42.1 V | | | | |
| Short Circuit Current (Isc) | 9.08 A | 9.13 A | 9.18 A | 9.23 A | 9.28 A | 9.33 A | | | | |

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

| TEMPERATURE CHARACTERISTICS | |
|--------------------------------------|--------------|
| Specification | Data |
| Temperature Coefficient (Pmax) | -0.34 % / °C |
| Temperature Coefficient (Voc) | -0.26 % / °C |
| Temperature Coefficient (Isc) | 0.05 % / °C |
| Nominal Module Operating Temperature | 42 ± 3°C |

PARTNER SECTION



* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice. Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.



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| PERMIT DEVELOPER | |
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| DATE | 06/03/2024 |
| DESIGNER | OAC |
| REVIEWER | |

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| SHEET NAME |
| MODULE DATASHEET |
| SHEET NUMBER |
| PV-09 |

Powerwall 3

Power Everything

Powerwall 3 is a fully integrated solar and battery system, designed to accelerate the transition to sustainable energy. Customers can receive whole home backup, cost savings, and energy independence by producing and consuming their own energy while participating in grid services. Once installed, customers can manage their system using the Tesla App to customize system behavior to meet their energy goals.

Powerwall 3 achieves this by supporting up to 20 kW DC of solar and providing 11.5 kW AC of continuous power per unit. It has the ability to start heavy loads up to 185 A LRA, meaning a single unit can support the power needs of most homes. Powerwall 3 is designed for mass production, fast and efficient installations, easy system expansion, and simple connection to any electrical service.



Powerwall 3 Technical Specifications

| | | |
|---------------------------------|--|--|
| System Technical Specifications | Model Number | 1707000-xx-y |
| | Nominal Grid Voltage (Input & Output) | 120/240 VAC |
| | Grid Type | Split phase |
| | Frequency | 60 Hz |
| | Overcurrent Protection Device | Configurable up to 60 A |
| | Solar to Battery to Home/Grid Efficiency | 89% ^{1,2} |
| | Solar to Home/Grid Efficiency | 97.5% ³ |
| | Supported Islanding Devices | Backup Gateway 2, Backup Switch |
| | Connectivity | Wi-Fi (2.4 and 5 GHz), Dual-port switched Ethernet, Cellular (LTE/4G ⁺) |
| | Hardware Interface | Dry contact relay, Rapid Shutdown (RSD) certified switch and 2-pin connector, RS-485 for meters |
| | AC Metering | Revenue Grade (+/- 0.5%) |
| | Protections | Integrated arc fault circuit interrupter (AFCI), Isolation Monitor Interrupter (IMI), PV Rapid Shutdown (RSD) using Tesla Mid-Circuit Interrupters |
| | Customer Interface | Tesla Mobile App |
| | Warranty | 10 years |

| | | |
|--------------------------------|---|-------------------|
| Solar Technical Specifications | Maximum Solar STC Input | 20 kW |
| | Withstand Voltage | 600 V DC |
| | PV DC Input Voltage Range | 60 — 550 V DC |
| | PV DC MPPT Voltage Range | 150 — 480 V DC |
| | MPPTs | 6 |
| | Maximum Current per MPPT (I _{mp}) | 13 A ³ |
| | Maximum Short Circuit Current per MPPT (I _{sc}) | 15 A ³ |

| | | |
|----------------------------------|------------------------------------|-------------------------------------|
| Battery Technical Specifications | Nominal Battery Energy | 13.5 kWh AC ¹ |
| | Maximum Continuous Discharge Power | 11.5 kW AC |
| | Maximum Continuous Charge Power | 5 kW AC |
| | Output Power Factor Rating | 0 - 1 (Grid Code configurable) |
| | Maximum Continuous Current | 48 A |
| | Maximum Output Fault Current | 10 kA |
| | Load Start Capability (1 s) | 185 A LRA |
| | Power Scalability | Up to 4 Powerwall 3 units supported |

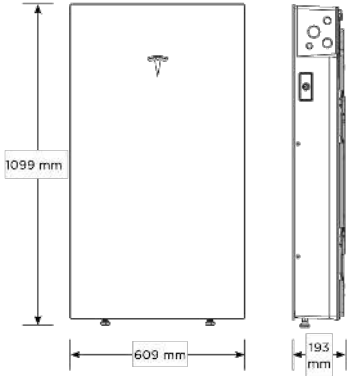
¹Typical solar shifting use case.
²Values provided for 25°C (77°F), at beginning of life. 3.3 kW charge/discharge power.
³Tested using CEC weighted efficiency methodology.
⁴Cellular connectivity subject to network service coverage and signal strength.
⁵ Where the DC input current exceeds the MPPT rating, a jumper can be used to combine two MPPTs into a single input to intake DC current up to 26 A I_{mp} / 30 A I_{sc}.

Powerwall 3 Technical Specifications

| | | |
|------------------------------|-------------------------|--|
| Environmental Specifications | Operating Temperature | -20°C to 50°C (-4°F to 122°F) ⁶ |
| | Operating Humidity (RH) | Up to 100%, condensing |
| | Storage Temperature | -20°C to 30°C (-4°F to 86°F), up to 95% RH, non-condensing, State of Energy (SOE): 25% initial |
| | Maximum Elevation | 3000 m (9843 ft) |
| | Environment | Indoor and outdoor rated |
| | Enclosure Rating | NEMA 3R |
| | Ingress Rating | IPX7 (Battery & Power Electronics) IPX5 (Wiring Compartment) |
| | Pollution Rating | PD3 |

| | | |
|------------------------|-----------------|--|
| Compliance Information | Certifications | UL 1642, UL 1699B, UL 1741, UL 1741 SA, UL 1741 SB, UL 3741, UL 1973, UL 1998, UL 9540, IEEE 1547-2018, IEEE 1547.1, UN 38.3 |
| | Grid Connection | United States |
| | Emissions | FCC Part 15 Class B |
| | Environmental | RoHS Directive 2011/65/EU |
| | Seismic | AC156, IEEE 693-2005 (high) |
| | Fire Testing | Meets the unit level performance criteria of UL 9540A |

| | | |
|---------------------------|------------------|---|
| Mechanical Specifications | Dimensions | 1099 x 609 x 193 mm (43.25 x 24 x 7.6 in) |
| | Weight | 130 kg (287 lb) |
| | Mounting Options | Floor or wall mount |



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| PERMIT DEVELOPER | |
| DATE | 06/03/2024 |
| DESIGNER | OAC |
| REVIEWER | |

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| SHEET NAME |
| INVERTER DATASHEET |
| SHEET NUMBER |
| PV-10 |

POWERWALL
Backup Gateway 2

The Backup Gateway 2 for Tesla Powerwall provides energy management and monitoring for solar self-consumption, time-based control, and backup.

The Backup Gateway 2 controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a main circuit breaker, the Backup Gateway 2 can be installed at the service entrance. When the optional internal panelboard is installed, the Backup Gateway 2 can also function as a load center.

The Backup Gateway 2 communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla app.



PERFORMANCE SPECIFICATIONS

| | |
|-------------------------------------|--|
| AC Voltage (Nominal) | 120/240V |
| Feed-In Type | Split Phase |
| Grid Frequency | 60 Hz |
| Current Rating | 200 A |
| Maximum Input Short Circuit Current | 10 kA ¹ |
| Overcurrent Protection Device | 100-200A; Service Entrance Rated ¹ |
| Overvoltage Category | Category IV |
| AC Meter | Revenue accurate (+/- 0.2 %) |
| Primary Connectivity | Ethernet, Wi-Fi |
| Secondary Connectivity | Cellular (3G, LTE/4G) ² |
| User Interface | Tesla App |
| Operating Modes | Support for solar self-consumption, time-based control, and backup |
| Backup Transition | Automatic disconnect for seamless backup |
| Modularity | Supports up to 10 AC-coupled Powerwalls |
| Optional Internal Panelboard | 200A 6-space / 12 circuit Eaton BR Circuit Breakers |
| Warranty | 10 years |

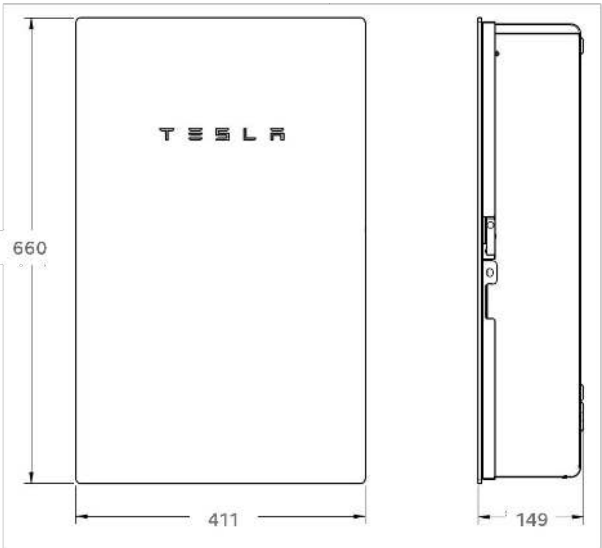
¹ When protected by Class J fuses, Backup Gateway 2 is suitable for use in circuits capable of delivering not more than 22kA symmetrical amperes.
² The customer is expected to provide internet connectivity for Backup Gateway 2; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

COMPLIANCE INFORMATION

| | |
|----------------|--|
| Certifications | UL 67, UL 869A, UL 916, UL 1741 PCS CSA 22.2 0.19, CSA 22.2 205 |
| Emissions | FCC Part 15, ICES 003 |

MECHANICAL SPECIFICATIONS

| | |
|------------------|--|
| Dimensions | 660 mm x 411 mm x 149 mm (26 in x 16 in x 6 in) |
| Weight | 20.4 kg (45 lb) |
| Mounting options | Wall mount, Semi-flush mount |



ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|-------------------------------|
| Operating Temperature | -20°C to 50°C (-4°F to 122°F) |
| Operating Humidity (RH) | Up to 100%, condensing |
| Maximum Elevation | 3000 m (9843 ft) |
| Environment | Indoor and outdoor rated |
| Enclosure Type | NEMA 3R |



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| PERMIT DEVELOPER | |
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| DATE | 06/03/2024 |
| DESIGNER | OAC |
| REVIEWER | |

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| SHEET NAME |
| GATEWAY DATASHEET |

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| SHEET NUMBER |
| PV-11 |

Solar Shutdown Device Technical Specifications

The Solar Shutdown Device is a Mid-Circuit Interrupter (MCI) and is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with Powerwall 3, solar array shutdown is initiated by any loss of AC power.

| | | | |
|--|--|---|--|
| Electrical Specifications | Model | MCI-1 | MCI-2 |
| | Nominal Input DC Current Rating (I _{MP}) | 12 A | 13 A |
| | Maximum Input Short Circuit Current (I _{SC}) | 19 A | 17 A |
| | Maximum System Voltage (PVHCS) | 600 V DC | 1000 V DC ⁷ |
| ⁷ Maximum System Voltage is limited by Powerwall to 600 V DC. | | | |
| RSD Module Performance | Maximum Number of Devices per String | 5 | 5 |
| | Control | Power Line Excitation | Power Line Excitation |
| | Passive State | Normally Open | Normally Open |
| | Maximum Power Consumption | 7 W | 7 W |
| | Warranty | 25 years | 25 years |
| Environmental Specifications | Operating Temperature | -40°C to 50°C (-40°F to 122°F) | -45°C to 70°C (-49°F to 158°F) |
| | Storage Temperature | -30°C to 70°C (-22°F to 158°F) | -30°C to 70°C (-22°F to 158°F) |
| | Enclosure Rating | NEMA 4X / IP65 | NEMA 4X / IP65 |
| Mechanical Specifications | Electrical Connections | MC4 Connector | MC4 Connector |
| | Housing | Plastic | Plastic |
| | Dimensions | 125 x 150 x 22 mm (5 x 6 x 1 in) | 173 x 45 x 22 mm (6.8 x 1.8 x 1 in) |
| | Weight | 350 g (0.77 lb) | 120 g (0.26 lb) |
| | Mounting Options | ZEP Home Run Clip M4 Screw (#10) M8 Bolt (5/16") Nail / Wood screw | Wire Clip |
| Compliance Information | Certifications | UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array) | |
| | RSD Initiation Method | External System Shutdown Switch or Powerwall 3 Enable Switch | |

UL 3741 PV Hazard Control (and PVRSA) Compatibility

| | |
|---|--|
| The following categories of solar module meet the UL 3741 PVHCS listing when installed with Powerwall 3 and Solar Shutdown Devices. | |
| Tesla Solar Roof | PV Hazard Control System: BIPV compliance document |
| Tesla or Hanwha (Q.Peak Duo BLK or BLK-G6+) Modules certified for use with ZEP racking | PV Hazard Control System: ZS PVHCS compliance document |
| Other module and racking combinations | PV Hazard Control System: Generic PV Array compliance document |



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| PERMIT DEVELOPER | |
| DATE | 06/03/2024 |
| DESIGNER | OAC |
| REVIEWER | |

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| SHEET NAME |
| TESLA MCI DATASHEET |
| SHEET NUMBER |
| PV-12 |

SOLARMOUNT



SOLARMOUNT defined the standard in solar racking. Features are designed to get installers off the roof faster. Our grounding & bonding process eliminates copper wire and grounding straps to reduce costs. Systems can be configured with standard or light rail to meet your design requirements at the lowest cost possible. The superior aesthetics package provides a streamlined clean edge for enhanced curb appeal, with no special brackets required for installation.



Now Featuring:
THE NEW FACE OF SOLAR RACKING
Superior Aesthetics Package



LOSE ALL OF THE COPPER & LUGS
System grounding through Enphase microinverters and trunk cables



SMALL IS THE NEXT NEW BIG THING
Light Rail is Fully Compatible with all SM Components



ENHANCED DESIGN & LAYOUT TOOLS
Featuring Google Map Capabilities within U-Builder

FAST INSTALLATION. SUPERIOR AESTHETICS

OPTIMIZED COMPONENTS • VERSATILITY • DESIGN TOOLS • QUALITY PROVIDER

SOLARMOUNT



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

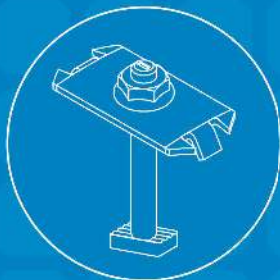
ONE PRODUCT - MANY APPLICATIONS

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 slope or steep pitched roofs. Available in mill, clear and dark anodized finishes to outperform your projects financial and aesthetic aspirations.

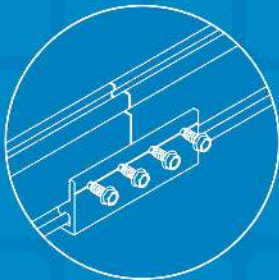
AUTOMATED DESIGN TOOL

DESIGN PLATFORM AT YOUR SERVICE

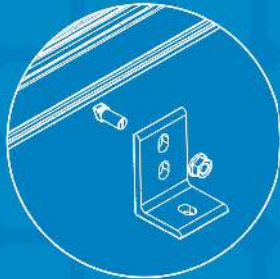
Creating a bill of materials is just a few clicks away with U-Builder, a powerful online tool that streamlines the process of designing a code compliant solar mounting system. Save time by creating a user profile, and recall preferences and projects automatically when you log in. You will enjoy the ability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



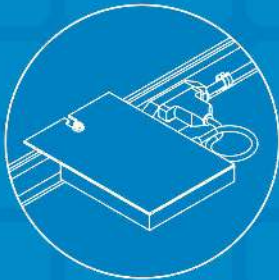
INTEGRATED BONDING MIDCLAMP



INTEGRATED BONDING SPLICE BAR



INTEGRATED BONDING L-FOOT w/ T-BOLT



INTEGRATED BONDING MICROINVERTER MOUNT w/ WIRE MANAGEMENT



LISTED **UL2703**

BONDING & GROUNDING
MECHANICAL LOADING
SYSTEM FIRE CLASSIFICATION

UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT



UNMATCHED EXPERIENCE



CERTIFIED QUALITY



ENGINEERING EXCELLENCE



BANKABLE WARRANTY



DESIGN TOOLS



PERMIT DOCUMENTATION

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 9001:2015, 14001:2015 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

Don't leave your project to chance, 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 twenty five (25) year limited product warranty and a five (5) year limited finish warranty.

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

PV32017FEB23 - PRINTED



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Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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| PERMIT DEVELOPER | |
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| REVIEWER | |

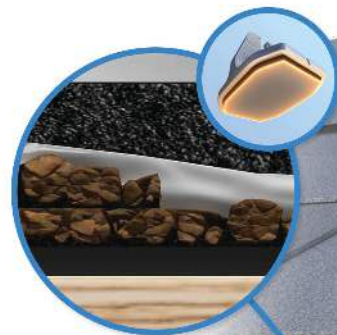
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| PV-13 |



The Respect Your Roof Deserves

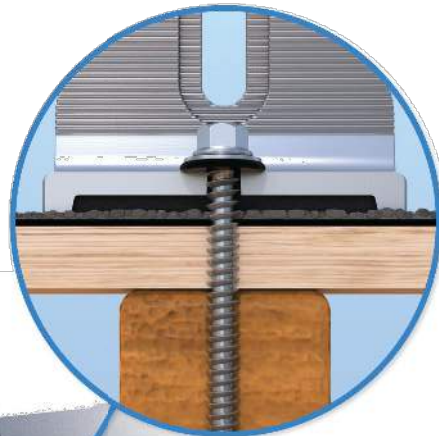
When integrating with a home, solar attachments must be dependable for the lifetime of the rooftop. Due to recent innovations, many asphalt shingles have bonded courses. A mount that protects without the need to pry shingles can really speed things up.

Halo UltraGrip®(HUG®) is here to respect the roof. Its Halo is a cast-aluminum barrier that encases the UltraGrip, our industrial-grade, foam-and-mastic seal. This allows HUG to accelerate the installation process and provide the utmost in waterproofing protection. Give your roof a HUG®.



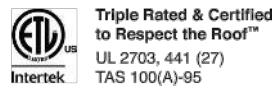
UltraGrip® Seal Technology

HUG UltraGrip utilizes a state-of-the-art seal design that uses a unique, foam-and-mastic combination. The foam-backed adhesive provides an entirely new flashing system that conforms and adheres to every nook and cranny of composition shingles, filling gaps and shingle step-downs (up to 1/8" in height).



Multi-Tiered Waterproofing
HUG® utilizes a multi-tiered stack of components to provide revolutionary waterproofing protection. The Halo cast-aluminum, raised-perimeter foundation surrounds the UltraGrip base—a foam-backed mastic seal combination that prevents water intrusion by adhering and sealing with the shingle surface.

Halo UltraGrip™ is part of the QuickMount® product line.



Rafter & Deck Mounting Options

Mount HUG® to the roof rafters, the roof deck, or both with our custom-engineered RD (rafter-or-deck) Structural Screw. The RD Structural Screw anchors HUG to the roof with an EPDM sealing washer, completing the stack of waterproofing barriers. See backside for more installation information.

Tech Brief



Adaptive, Rafter-Friendly Installation



Hit the rafter? Good to go!
When you find a rafter, you can move on. Only 2 RD Structural Screws are needed.



Miss the rafter? Try it again.
Place another screw to the left or right. If rafter is found, install 3rd and final screw.



Still no luck? Install the rest.
If more than 3 screws miss the rafter, secure six screws to deck mount it.

Trusted Strength & Less Hassle



25-Year Warranty
Product guaranteed free of impairing defects.

Structural capacities of HUG® were reviewed in many load directions, with racking rail running cross-slope or up-slope in relation to roof pitch.

For further details, see the HUG certification letters for attaching to rafters and decking.

IronRidge designed the HUG, in combination with the RD Structural Screw to streamline installs, which means the following:

- No prying shingles
- No roof nail interference
- No pilot holes necessary
- No sealant (in most cases)
- No butyl shims needed

Attachment Loading



The rafter-mounted HUG has been tested and rated to support 1004 (lbs) of uplift and 368 (lbs) of lateral load.

Structural Design



Parts are designed and certified for compliance with the International Building Code & ASCE/SEI-7.

Water Seal Ratings



HUG passed both the UL 441 Section 27 "Rain Test" and TAS 100(A)-95 "Wind Driven Rain Test" by Intertek.

UL 2703 System



Systems conform to UL 2703 mechanical and bonding requirements. See Flush Mount Manual for more info.

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Signature with Seal



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EDWIN GONZALEZ

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| DESIGNER | OAC |
| REVIEWER | |

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