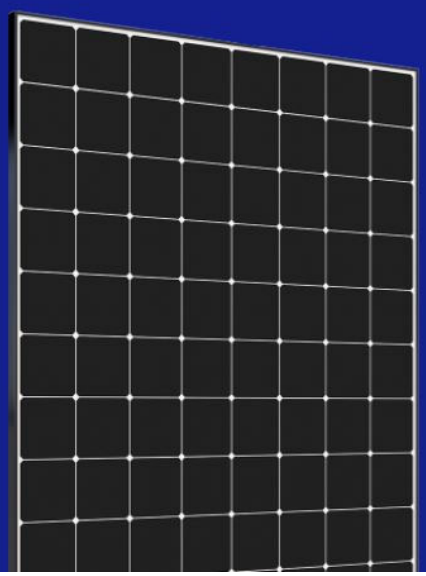
Maxeon

Photovoltaic Panels

Safety and Installation Instructions

United States

Maxeon
Photovoltaic panels



Safety and Installation Instructions

544753 Revision J
Published December 2025

This document applies to X-Series, MAX3, MAX6 and MAX7 modules listed below:

Platform	Model	Power Range
MAX3 96c	SPR-Xyy-XXX-BLK	xxx=327-370 in steps of 1
MAX3 104c COM	SPR-MAX3-xxx-COM	xxx=340-400 in steps of 5
MAX3 104c RES	SPR-MAX3-xxx, SPR-MAX3-xxx-BLK	xxx=340-400 in steps of 5
MAX3 112c ACR	SPR-MAX3-xxx-R, SPR-Max3-xxx-BLK-R, SPR-MAX3-xxx-COM-R	xxx=400-430 in steps of 5
MAX3 128c	SPR-Xyy-XXX-COM	xxx=420-485 in steps of 1
MAX6 66c	SPR-MAX6-xxx	xxx=410-445 in steps of 5
MAX6 72c	SPR-MAX6-xxx-COM	xxx=435-475 in steps of 5
MAX7 104c	SPR-MAX7-xxx, SPR-MAX7-xxx-BLK	xxx=380-405 in steps of 5
MAX7 120c	SPR-MAX7-xxx, SPR-MAX7-xxx-BLK	xxx=440-475 in steps of 5
MAX7 128c	SPR-MAX7-xxx, SPR-MAX7-xxx-BLK	xxx=480-505 in steps of 5

These modules do not have grounding restrictions and all are compatible with high-efficiency transformer less inverters.

This document describes the limited warranty, mounting configuration, handling, maintenance and cleaning of modules. Save this documentation for future reference and comply with all provided instructions.

For the latest revision please refer to
www.maxeon.com/us/InstallGuideUL
Contents of this manual are subject to change without notice.
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POWERING POSITIVE CHANGE

Safety and Installation Instructions (United States)

1.0 Introduction

These instructions provide safety and installation instructions for UL/TUV Listed Maxeon photovoltaic (PV) modules that have the UL/TUV logo on the product label:

IMPORTANT! ***Please read these instructions in their entirety before installing, wiring, or using this product in any way. Failure to comply with these instructions will invalidate the Maxeon Limited Warranty for PV Modules.***

1.1 Disclaimer of Liability

The installation techniques, handling, and use of this product are beyond company control. Therefore, Maxeon assumes no responsibility for loss, damage or expense resulting from improper installation, handling, or use.

1.2 Listing Information

This product meets or exceeds the requirements set forth by UL 61730 and UL 61215. These Standards cover flat-plate PV modules and panels intended for installation on buildings or those intended to be freestanding. To satisfy the Listing for this product the modules must be mounted with a rack or standoff structure. The Listing does not include integration into a building surface because additional requirements may apply. This product is not intended for use where artificially concentrated sunlight is applied to the module.

1.3 Limited Warranty

Module limited warranties are described in full in the Maxeon warranty certificates obtainable at www.maxeon.com/us. In summary, the Limited Warranties do not apply to any of the following:

PV Modules subjected to: (i) misuse, abuse, neglect or accident; (ii) alteration or improper installation (improper installation includes, without limitation, installation that does not comply with all Maxeon installation instructions and operations and maintenance instructions of any type, as may be amended and updated from time to time at Maxeon's sole discretion, and all national, state, and local laws, codes, ordinances, and regulations); (iii) repair or modification by someone other than an approved service technician of Maxeon; (iv) conditions exceeding the voltage, wind, snow load, and any other operational specifications; (v) power failure or surges; (vi) indirect or direct damage from lightning, flood, fire or other acts of nature; (vii) damage from persons, biological activity, or industrial chemical exposure; or (viii) damage from impact or other events outside Maxeon's control.

1.4 Product Serial Identification

Serial Number Rule:
ABBCDEEEEEEE

Where:
A – represents year of manufacture
BB – represents the week of manufacture
CD – represents the Factory location

EEEEEEE – unique identification number assigned to each module.

Field	Description		
A	Year of manufacture		
	A – 2004	K – 2014	U - 2024
	B – 2005	L – 2015	V - 2025
	C – 2006	M – 2016	W - 2026
	D – 2007	N – 2017	X - 2027
	E – 2008	O – 2018	Y – 2028
	F – 2009	P – 2019	Z – 2029
	G – 2010	Q – 2020	AA – 2030
	H – 2011	R – 2021	AB - 2031
	I – 2012	S – 2022	AC - 2032
	J – 2013	T – 2023	AD - 2033
BB	Week of manufacture Use Maxeon work week calendar(work week starts on Monday) Note: For end week & start week of the year, please observe the workweek cut-off based on Maxeon calendar on the appendix.		
CD	M – Mexico – (1-Chihuahua; 2-Mexicali: 3-SPMX2, Ensenada Mexico) U - US (1-Riverside, California)		

2.0 Safety Precautions

Before installing this product, read all safety instructions in this document.

DANGER! Module interconnection cables pass direct current (dc) and are sources of voltage when the module is under load and when it is exposed to light. ***Direct current can arc across gaps and may cause injury or death if improper connection or disconnection is made; or if contact is made with module leads that are frayed or torn.*** Do not connect or disconnect modules when a current source is energizing the conductors. Modules may contain high voltage when interconnected with other modules.

- All installations must be performed in compliance with the National Electrical Code (NEC) and any applicable local codes.
- Modules certified to UL 61730 are Safety Class 2 for protection against electric shock
- There are no user-serviceable parts within the module. Do not attempt to repair any part of the module.
- Installation should be performed only by qualified personnel.
- Do not stand on, drop, scratch, or allow objects to fall on modules as doing so may damage them and void the warranty.
- Do not place anything on the modules, even for a moment because resulting residue may damage or stain the glass surface.
- If the front glass is broken, or the backsheet is torn, contact with any module surface or module frame can cause electric shock. Damaged modules should be immediately disconnected from the electric system. The module should be removed from array as soon as possible and contact the supplier for disposal instructions.
- Broken J-boxes or connectors are electrical hazards as well as laceration hazards. Installers should remove any such module from the array and contact Maxeon for disposal instructions.
- Do not install or handle the modules when they are wet or during periods of high wind.
- Do not block drain holes or allow water to pool in or near module frames.
- Unconnected connectors must always be protected from pollution (e.g dust, humidity, foreign particles, etc), prior to

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installation. Do not leave unconnected (unprotected) connectors exposed to the environment. A clean assembly environment is therefore essential to avoid performance degradation.

- Do not allow the connectors to come in contact with chemicals such as sunscreen, greases, oils and organic solvents which may cause stress cracking.
- Do not disconnect any modules when its inverter is feeding in to the grid. Switch off the inverter before disconnecting, reinstalling or making any action with the modules.
- For connectors, which are accessible to untrained people, it is imperative to use the locking connectors and safety clips, if applicable, in order to defend against untrained personnel disconnecting the modules once they have been installed.
- Cover all modules in the PV array with an opaque cloth or material before making or breaking electrical connections.
- As the modules bend under the load, do not mount sharp objects (e.g. screws) near the module backside.
- Do not mount rails under the junction boxes
- Do not attach or adhere items at the backsheet of the modules.
- Contact Maxeon if maintenance is necessary.
- Save these instructions!

2.1 Fire Rating

The module fire rating is Type 2 per UL1703, 2013 edition. Fire rating classification for any PV system using UL1703:2013 can only establish a fire rating in combination with the mounting system ratings normally found in the mounting system installation instructions.

3.0 Electrical Characteristics

Electrical characteristics of the modules are described in Table 1 below. Rated electrical characteristics are within 10 percent of measured values at Standard Test Conditions of: 1000 W/m2, 25°C cell temperature and solar spectral irradiance per IEC 60904-3 or irradiation of (air mass) AM 1.5 global (G) spectrum. The SPR-MAX3-XXX-R module contains two bypass diodes and all other products contain three. The maximum series fuse rating is 15A for X-Series, 20A for MAX3/MAX6, and 25A for MAX3 (R) and MAX7 modules. Under normal conditions, a photovoltaic module may experience conditions that produce more current and/or voltage than reported at Standard Test Conditions. Accordingly, the values of ISC and VOC marked on UL Listed modules should always be multiplied by a factor of 1.25 when determining component voltage ratings, conductor capacities, fuse sizes and size of controls connected to the module output. Refer to Section 690-8 of the NEC for an additional 1.25 Safety factor which may be applicable.

Table 1: Electrical Characteristics[1]

Module	Rated Power (W) +5/-0%	Voltage at Rated Power Vmpp (V)	Current at Rated Power, Impp (A)	Open Circuit Voltage Voc (V) +/-3%	Short Circuit Current, Isc (A) +/-3%	Current Temp. Coeff. %/°C	Voltage Temp. Coeff. %/°C	Power Temp. Coeff. %/°C	Maximum System Voltage	System Safety Class
SPR-MAX6-435	445	40.7	10.93	48.2	11.60	0.057	-0.239	-0.29	1000	II
SPR-MAX6-440	440	40.5	10.87	48.2	11.58	0.057	-0.239	-0.29	1000	II
SPR-MAX6-435	435	40.3	10.82	48.2	11.57	0.057	-0.239	-0.29	1000	II
SPR-MAX6-430	430	40.0	10.74	48.2	11.56	0.057	-0.239	-0.29	1000	II
SPR-MAX6-425	425	39.8	10.68	48.1	11.55	0.057	-0.239	-0.29	1000	II
SPR-MAX6-420	420	39.6	10.62	48.1	11.53	0.057	-0.239	-0.29	1000	II
SPR-MAX6-410	410	39.1	10.49	48.0	11.51	0.057	-0.239	-0.29	1000	II
SPR-MAX6-425-BLK	425	40.3	10.58	48.2	11.32	0.057	-0.239	-0.29	1000	II
SPR-MAX6-415-BLK	415	39.8	10.43	48.1	11.29	0.057	-0.239	-0.29	1000	II
SPR-MAX6-410-BLK	410	39.5	10.37	48.1	11.28	0.057	-0.239	-0.29	1000	II
SPR-MAX6-405-BLK	405	39.3	10.30	48.1	11.26	0.057	-0.239	-0.29	1000	II
SPR-MAX6-400-BLK	400	39.1	10.24	48.1	11.25	0.057	-0.239	-0.29	1000	II
SPR-X22-485-COM	485	78.8	6.16	92.7	6.55	0.058	-0.236	-0.27	1500	II
SPR-X21-470-COM	470	77.6	6.06	91.5	6.45	0.058	-0.236	-0.27	1500	II
SPR-X21-350-BLK	350	57.3	6.11	68.2	6.50	0.058	-0.236	-0.27	600	II
SPR-X21-335-BLK	335	57.3	5.85	67.9	6.23	0.058	-0.236	-0.27	600	II
SPR-MAX3-400	400	65.8	6.08	75.6	6.58	0.058	-0.236	-0.27	1000	II
SPR-MAX3-395	395	65.4	6.04	75.6	6.57	0.058	-0.236	-0.27	1000	II
SPR-MAX3-390	390	65.0	6.00	75.5	6.56	0.058	-0.236	-0.27	1000	II
SPR-MAX3-380	380	64.1	5.93	75.4	6.55	0.058	-0.236	-0.27	1000	II
SPR-MAX3-400-COM	400	66.0	6.07	75.4	6.57	0.058	-0.236	-0.27	1000	II
SPR-MAX3-395-COM	395	65.1	6.07	75.4	6.56	0.058	-0.236	-0.27	1000	II
SPR-MAX3-390-COM	390	64.5	6.05	75.3	6.55	0.058	-0.236	-0.27	1000	II
SPR-MAX3-380-COM	380	63.1	6.02	75.2	6.54	0.058	-0.236	-0.27	1000	II
SPR-MAX3-375-BLK	375	64.0	5.86	75.5	6.30	0.058	-0.236	-0.27	1000	II
SPR-MAX3-355-BLK	355	60.7	5.85	75.3	6.27	0.058	-0.236	-0.27	1000	II
SPR-MAX3-420-BLK-R	420	35.5	11.82	40.7	12.65	0.058	-0.236	-0.27	1000	II
SPR-MAX3-415-BLK-R	415	35.3	11.75	40.7	12.64	0.058	-0.236	-0.27	1000	II
SPR-MAX3-410-BLK-R	410	35.1	11.68	40.7	12.63	0.058	-0.236	-0.27	1000	II
SPR-MAX3-405-BLK-R	405	34.9	11.61	40.7	12.62	0.058	-0.236	-0.27	1000	II
SPR-MAX3-400-BLK-R	400	34.7	11.54	40.6	12.60	0.058	-0.236	-0.27	1000	II
SPR-MAX3-430-R	430	35.1	12.25	40.7	13.15	0.058	-0.236	-0.27	1000	II
SPR-MAX3-425-R	425	34.9	12.18	40.7	13.13	0.058	-0.236	-0.27	1000	II
SPR-MAX3-415-R	415	34.5	12.03	40.6	13.10	0.058	-0.236	-0.27	1000	II
SPR-MAX6-480-COM	480	44.2	10.87	52.6	11.58	0.057	-0.239	-0.29	1500	II
SPR-MAX6-475-COM	475	43.9	10.82	52.6	11.57	0.057	-0.239	-0.29	1500	II
SPR-MAX6-460-COM	460	43.2	10.64	52.5	11.54	0.057	-0.239	-0.29	1500	II
SPR-MAX6-450-COM	450	42.8	10.52	52.4	11.51	0.057	-0.239	-0.29	1500	II
SPR-MAX7-475	475	38.06	12.48	44.47	13.20	0.058	-0.236	-0.27	1000	II
SPR-MAX7-470	470	37.90	12.40	44.44	13.18	0.058	-0.236	-0.27	1000	II
SPR-MAX7-465	465	37.74	12.32	44.41	13.16	0.058	-0.236	-0.27	1000	II
SPR-MAX7-455	455	37.58	12.24	44.38	13.14	0.058	-0.236	-0.27	1000	II
SPR-MAX7-445	445	37.08	12.00	44.29	13.08	0.058	-0.236	-0.27	1000	II
SPR-MAX7-440	440	36.91	11.92	44.26	13.06	0.058	-0.236	-0.27	1000	II
SPR-MAX7-465-BLK	465	38.06	12.22	44.47	12.92	0.058	-0.236	-0.27	1000	II
SPR-MAX7-455-BLK	455	37.74	12.06	44.41	12.88	0.058	-0.236	-0.27	1000	II
SPR-MAX7-445-BLK	445	37.42	11.89	44.35	12.83	0.058	-0.236	-0.27	1000	II
SPR-MAX7-435-BLK	435	37.05	11.74	43.67	12.79	0.058	-0.236	-0.27	1000	II

4.0 Electrical Connections and System Monitoring

Modules may be connected in series and/or parallel to achieve the desired electrical output as long as optimum design parameters are achieved. Please use only the same type of modules in a combined source circuit. Do not mix the modules with different nameplates without authorization by Maxeon.

Even if allowed by local regulation, Plug and Socket connectors mated together in a PV system must be of the same type (model, rating) from the same manufacturer i.e. a plug connector from one

[1] For models not shown here, please contact Maxeon technical support or visit www.maxeon.com/us. Electrical parameters are measured at Standard Test Conditions (STC). The series fuse must have an interrupting rating that is equal to or greater than the maximum fault current that the fuse is required to interrupt, including contributions from all connected sources of energy. Refer to NEC Article 100, Part II as to what type of series fuse is acceptable for modules rated at higher than 600 V dc system voltage.

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manufacturer and a socket connector from another manufacturer, or vice versa, shall not be used to make a connection. Currently approved connectors are:

Manufacturer	Model
Stäubli	PV-KST4/6I-UR, PV-KBT4/6I-UR
	PV-KST4-EV02/6I-UR, PV-KBT4-EV02/6I-UR
Tyco Electronics	PV4-S1F4, PV4-S1M4

Maxeon recommends a conservative minimum bending radius (R) 5x cable diameter must be maintained and must not be bent on the direct exit of the connector or junction box. Avoid exposure of electrical connections to direct sunlight and do not place the connector in a location where water could easily accumulate. Installers must refer to connector manufacturer's instruction for further installation and connection requirements.
Connectors are factory assembled with intentional gaps between the cable nut and the body of the connector. Do not retighten module connector nuts as this may lead to stress cracking of the connector assembly and will void the warranty.

4.1 Equipment Grounding

To reduce the possibility of electrical shock, ground the frame of the module or array per NEC before wiring the circuit. In order to install in accordance with their UL Listing, Maxeon modules must be grounded using grounding hardware that meets requirements for grounding systems in UL 61730 and UL 61215 on anodized aluminum frames. Maxeon recommends to refer to the applicable regional and local codes and requirements on grounding PV arrays and mounting frames in conjunction with your racking supplier. In addition, to avoid corrosion due to the use of dissimilar metals Maxeon recommends stainless steel between copper and aluminum.

1) Attach a lay-in lug (Ilsco GBL-4DBT) to one of the grounding holes on the module frame, and attach the ground conductor to the lug. Use stainless steel hardware (bolt, washers, and nut). Use an external-tooth star washer between the lug and the module frame in order to pierce the anodizing and establish electrical contact with the aluminum frame. The assembly must end with a nut that's torqued to 1.67–2.08 ft-lbs (for a #10-32 bolt). A lock washer or other locking mechanism is required to maintain tension between the bolt and the assembly. The conductor must be attached to the ground lug using the lug's set screw. Refer to NEC 690.

The module is considered to be in compliance with this standard only when the module is either mounted in the manner specified by the mounting instructions, or when the mounting means has been evaluated with this PV module to UL 2703. A module with exposed conductive parts is considered to be in compliance with this standard only when it is either electrically grounded in accordance with the manufacturer's instructions and the requirements of the National Electrical Code, ANSI/NFPA 70 (2014-2017), or when the bonding means has been evaluated with this PV module to UL 2703.

The combination of module frame and grounding hardware were subjected to Humidity Freeze Test and Temperature Cycling test with Invisimount Mounting System under file E466981.

4.2 System Grounding

Review Table 2 below for the proper grounding techniques for the installation of your particular Maxeon modules.

4.3 Series Connection

The modules may be wired in series to produce the desired voltage output. Do not exceed the maximum system voltage shown in module datasheets and product label.

4.4 Parallel Connection

The modules may be combined in parallel to produce the desired current output. Each series string or module may be required to be fused prior to combining with other strings if the resulting maximum fuse size allowed (number of modules which can be connected in parallel and protected by one fuse) exceeds the fuse rating as shown in the module datasheet and product label. Please refer to the NEC Article 690 for additional fusing requirements.

Table 2: Module Grounding Key

Module Model Grounding Key
Maxeon modules have no grounding restrictions:
All model numbers starting with SPR-Xyy-XXX-BLK, SPR-Xyy-XXX-COM, SPR-MAX3-XXX, SPR-MAX3-XXX-BLK, SPR-MAX3-XXX-COM, SPR-MAX3-XXX-R, SPR-MAX3-XXX-BLK-R, SPR-MAX6-XXX, SPR-MAX6-XXX-BLK, SPR-MAX6-XXX-COM, SPR-MAX7-XXX, SPR-MAX7-XXX-BLK
***IMPORTANT!* Failure to comply with this requirement will reduce system performance and invalidate Maxeon's Limited Power Warranty for PV Modules.**

5.0 Module Mounting

The Maxeon Limited Warranty for PV Modules is contingent upon modules being mounted in accordance with the requirements described in this section.

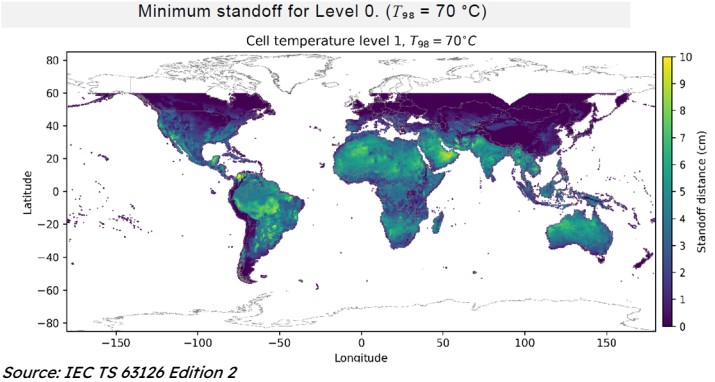
5.1 Site Considerations

Maxeon modules should only be mounted in locations that meet the following requirements:

Operating Temperature: All Maxeon modules must only be mounted in environments that ensure they will operate within the following temperatures:

Operating Temperature range	-40°C to +70 °C -40°F to +158 °F
Ambient Air Temperature range	-40°C to +40 °C -40°F to +104 °F

Adequate ventilation should be provided behind the modules, especially in hot environments. It is recommended to install modules in environments where the ambient temperature ranges from -40°C to +40°C. The 98th percentile operational temperature of the module should not exceed 70°C under any mounting conditions. Refer to Figure 1 for Level 0 regions and its 98th percentile.



Source: IEC TS 63126 Edition 2

Figure 1

Shading should always be minimized as much as possible through site design and maintenance to maximize lifetime energy production.

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Shading is defined as Partial or Permanent. Partial Shade occurs infrequently – at certain times of the year or for a minimal duration during peak production hours. Sources include interrow shading, regular soiling, snow, and site features. Permanent Shade regularly occurs for extended periods during peak production hours - such as installing panels directly behind a chimney or roof vent.

Maxeon modules: Minimize permanent and partial sources of shading. Maxeon panels are designed to prevent hotspots and installations with permanent shade will not impact the Limited Warranty.

Design Strength: Maxeon modules are designed to meet a positive (downward) and/or negative (upward) withstanding test pressure load, as per IEC 61215, when mounted as per the guidelines in Section 5.2 and configurations in Appendix. Test loads are for information purposes only; design loads should be considered for the project design.

When mounting modules in snow prone or high wind environments, special care should be taken to mount the modules in a manner that provides sufficient design strength while meeting local code requirements.

MAX6 66 cells with frame Gen 5.2 using Invisimount; no-hole mounting system has been evaluated to a wind and snow design load of 2873 Pa with clamp-mount method (End-mount method) and 1916 Pa with Quarter-mount method, with a safety factor of 1.5 minimum.

MAX6 72/66 cells with frame Gen 5.2 have been evaluated to a wind design load of 3600 Pa and snow design load of 6000 Pa with direct Quarter-mount method using mounting holes on the PV module, with a safety factor of 1.5 minimum.

MAX6 72/66 cells with frame Gen 5.6 have been evaluated to a wind design load of 3000 Pa and snow design load of 6000 Pa with direct Quarter-mount method using mounting holes on the PV module, with a safety factor of 1.5 minimum.

MAX3 128/112/104/96 cells, MAX6 72/66 cells with frame Gen 4.2 and MAX7 with Gen 5.8 have been evaluated to a wind design load of 3600 Pa and snow design load of 6000 Pa with direct End-mount method (Quarter mount method), with a safety factor of 1.5 minimum.

Additional authorized Operating Environments:
Modules can be mounted in the following aggressive environment according to the test limits mentioned below
Salt mist corrosion testing: IEC 61701 Test Method 6*
Ammonia Corrosion Resistance: IEC 62716 Concentration: 6,667ppm
Modules are designed for a maximum altitude of 2000 m.
**Test method 8 for MAX7*

Excluded Operating Environments
Certain operating environments are not recommended for Maxeon modules, and are excluded from the Maxeon Limited Warranty. No Maxeon module should be mounted at a site where it may be subject to direct contact with salt water, or other aggressive environment.
Modules should not be installed near flammable liquids, gases, or locations with hazardous materials; or moving vehicles of any type.

5.2 Mounting Configurations

Modules integrated into or mounted over a roofing system must be mounted over a fire-resistant roof covering rated for the application. Modules may be mounted at any angle, from horizontal to vertical. To reduce soiling, modules should be mounted at a minimum of 5 degrees. The cleaning frequency must be increased for modules installed with a very low angle. In the Northern Hemisphere, the PV modules is typically facing south, and in the Southern Hemisphere, the PV modules should typically face north.

Commercial modules (128 cells) frames have permanently attached stacking pins located in a 20mm zone on the long side frame at 388-408 mm from the corner. Mounting system hardware used with commercial modules must account for the presence of these stacking pins (see Appendix).

Specific information on module dimensions and the location of mounting and grounding holes is provided in Appendix. The system installer is responsible for the determination of location-specific load requirements.

In order to prevent water from entering the junction box, which could present a safety hazard, modules should be oriented with the junction box in the uppermost position and *not* be mounted such that the cell faces downward (e.g. on a tracking structure that positions the modules with the junction box facing skyward during sleep mode).

It should be noted that watertightness is not ensured by Maxeon, therefore, if water management is required, the mounting system should be designed accordingly.

Clearance between the module frames and structure or ground is required to prevent wiring damage and allows air to circulate behind the module. For all modules a minimum of 1.5″ of clearance between the module frames and the structure (or grade) is required. The required minimum clearance between installed modules is 1/4″. When installed on a roof, the module shall be mounted according to the local and regional building and fire safety regulations. In case the module is installed in a roof integrated PV-System (BIPV), it shall be mounted over a watertight and fire-resistant underlayment rated for such application.

Modules mounting systems should only be installed on buildings that have been formally considered for structural integrity, and confirmed to be capable of handling the additional weighted load of the Modules and mounting systems, by a certified building specialist or engineer.

Mounting system supplier shall manage the galvanic corrosion which can occur between the aluminum frame of the Modules and mounting system or grounding hardware if such devices is comprised of dissimilar metals.
The module is only certified for use when its factory frame is fully intact. Do not remove or alter the module frame. Creating additional mounting holes or removing the stacking pins may damage the module and reduce the strength of the frame, therefore are not allowed. Using mounting Clamps or clips with additional grounding bolts or grounding metal sheets could be in compliance with this Safety and Installation Instructions manual subject to conditions of Section 4.1
Modules may be mounted using the following methods only:

1) **Frame Holes:** Secure the module to the structure using the factory mounting holes. Four 1/4″ stainless steel bolts, with nuts, washers, and lock washers are recommended per module; tightened to a min. torque of 10 ft-lb (13.6 Nm). This method has been certified by a third-party organization according to UL 1703. **Quarter-mount method (nuts and bolts):** Modules are to be mounted to the Rail using the nut and bolt located on the longer side, 50mm to 400mm from shorter edge of the module in portrait orientation (as tested); Four ¼”-20 Hex bolt Grade 8 Steel are used to attach module frame to the rails using a torque of 10 ft-lb (13.6 Nm) Steel washer – 0.75” OD x 0.63” thick frame and Steel washer – 0.875” OD x 0.1” thick Unistrut was

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used. For frame hole mounting, modules must be secured using the holes shown in Appendix.

2) **Clamps**: Mount the module with the opposite clamps on the longer and/or shorter sides of the module. The clips allowed location should be according to Appendix. Installers should ensure the clamps are of sufficient strength to allow for the maximum design pressure of the module. Clamps are not provided by Maxeon. Clamps must apply force collinear with the 'wall' of the module frame and not only to the top flange. Clamps shall not apply excessive force to the top frame, warp the top flange or contact the glass- these practices void the module warranty and risk glass breakage. **Figure 1a** illustrates locations for top frame clamp force. When clamping to the module frame, torque should never exceed 11 ft-lbs (15 Nm) to reduce chances of frame deformation and/or glass breakage. If the clamp manufacturer recommends a specific torque value which is lower than 11 ft-lbs (15 Nm), the installer should use the clamp manufacturer's torque value. If the clamp manufacturer recommends a specific torque value which is higher than 11 ft-lbs (15 Nm), the installer should contact the clamp manufacturer for acceptance of the 11 ft-lbs (15 Nm) maximum torque value or to find alternative clamps. A calibrated torque wrench must be used. Mounting systems should be evaluated for compatibility before installing, especially when the system is not using Clamps or clip.

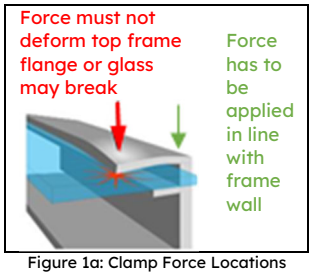

Figure 1a: Clamp Force Locations

Clamp mount method or Quarter mount method using no-hole Invisimount mounting system: Modules are to be mounted to the Rail using the clamps located on the longer side, 50mm to 400mm from short edge of the module in portrait orientation; Mid-clamps and End Clamps are used to attach module frame to the rails using a torque of 7.08 ft-lb (9.6 N-m). Rails are connected using rail splice with a torque of 3.33 ft-lb (4.5 N-m). Only used with MAX6 module series.

Minimum clamp width is ≥25mm for corner clamping. Clamps should not be in contact with the front glass and clamps should not deform the frame.

Maxeon does not recommend nor endorse the application on the modules of clamps which, as part of their grounding or earthing function, have teeth or claw features (see Figure 2) which may, individually or cumulatively, cause the module breakage due to (and without limitation):

i. the grounding features touching the front glass which is incorporated into the module due to the position of such grounding feature,
ii. the shape, the position or the number of the grounding features deforming the module top frame, or
iii. the clamp being over-torqued during the installation.

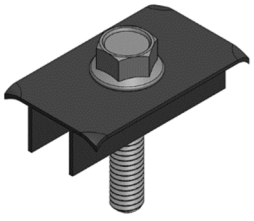
Figure 2

3) **End-mount method using no-hole Invisimount mounting system:** Modules are to be mounted to the Rail using the clamps located on the shorter side, 50mm to 400mm from longer edge of the module in landscape orientation; Mid-clamps and End Clamps are used to attach module frame to the rails using a torque of 7.08 ft-lb (9.6 N-m). Rails are connected using rail splice with a torque of 3.33 ft-lb (4.5 N-m). Only used with MAX6 module series.

5.2 Module Handling During Installation

Do not place modules face forward in direct contact with abrasive surfaces like roofs, driveways, wooden pallets, railings, stucco walls, etc…
The module front surface glass is sensitive to oils and abrasive surfaces, which may lead to scratches and irregular soiling.
During storage, modules need to be protected from rain or any kinds of liquids. Required storage temperature is between 10°C to 40°C in a dry environment (humidity between 30 to 80%). Do not store modules outdoor to avoid moisture and wet conditions.

Modules that feature antireflective coated glass are prone to visible finger print marks if touched on the front glass surface. Maxeon recommends handing modules with anti-reflective glass with gloves (no leather gloves) or limiting touching of the front surface. Any finger print marks resulting from installation will naturally disappear over time or can be reduced by following the washing guidelines in Section 6.0 below. Any module coverage (colored plastic tarps or similar) during installation can lead to permanent front glass discoloration and is not recommended. The use of vacuum lifting pads can cause permanent marks on the front glass.
When a residential installation (with "RES" in the description) is designed/planned using SunPower/Maxeon modules with different Part Numbers (SKU's), in order to minimise cosmetic differences between modules, please ensure the anti-reflective supplier of the modules are identical. This can be done by referring to the product description, and looking for AR-XX, where "XX" denotes the supplier and these characters shall be all identical.

Never lift or move the module using the cables or the junction box under any-circumstances. Ties or tapes used to secure cables are designed for transportation. They are not designed to comply with local requirements for securing PV cable to the array, and may cause shading on bifacial panels reducing performance.

Shading incidence need to be avoided during PV system operation. The system is not supposed to be energized until the mounting scaffolding, fences or railing have been removed from the roof. Systems should be disconnected in any cases of maintenance which can cause shading (e.g. chimney sweeping, any roof maintenance, antenna/dish installations, etc).

6.0 Maintenance and Cleaning

Trained Maxeon dealer or trained Maxeon support personnel should inspect all modules annually for safe electrical connections, sound mechanical connections, and freedom from corrosion.
Periodic cleaning of module glass has resulted in improved performance levels, especially in regions with low levels of annual precipitation; therefore Maxeon recommends periodic cleaning of the modules.
To clean a module, wash its glass surface with potable, non-heated water. Normal water pressure is adequate when cleaning the AR glass. Some fingerprints, stains, or accumulations of dirt on the glass may be removed with over-the-counter glass cleaners (such as Windex® or equivalent), or with a 3% soap-and-water solution. For smaller systems, wet the module glass with the solution, let it stand for five minutes, and then wet them again and use a soft sponge or seamless cloth to wipe the glass surface in a circular motion. For

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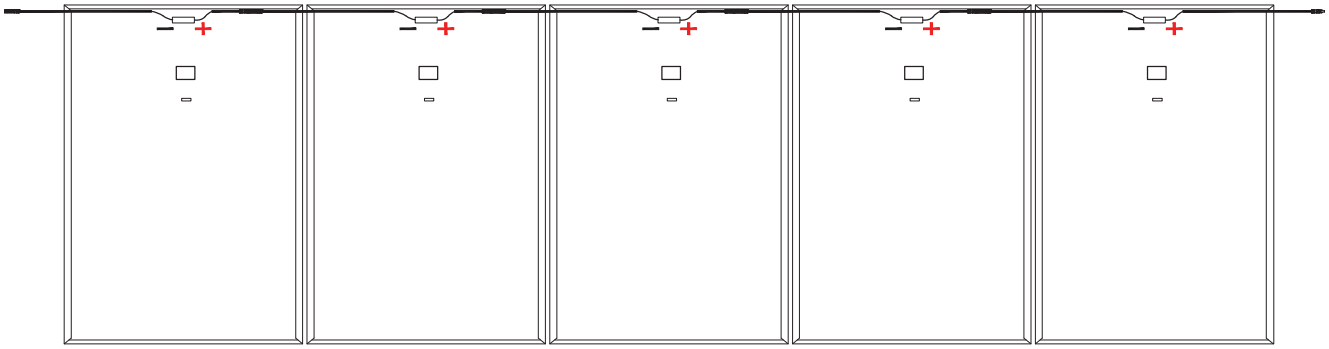
large systems, wet the modules with the cleaning solution, let them stand for five minutes, and then rinse them with high-pressure water or a soft squeegee. Do not use harsh industrial-strength cleaning materials such as scouring powder, steel wool, scrapers, blades, or other sharp instruments to clean the module glass. Use of such materials will void the product warranty.

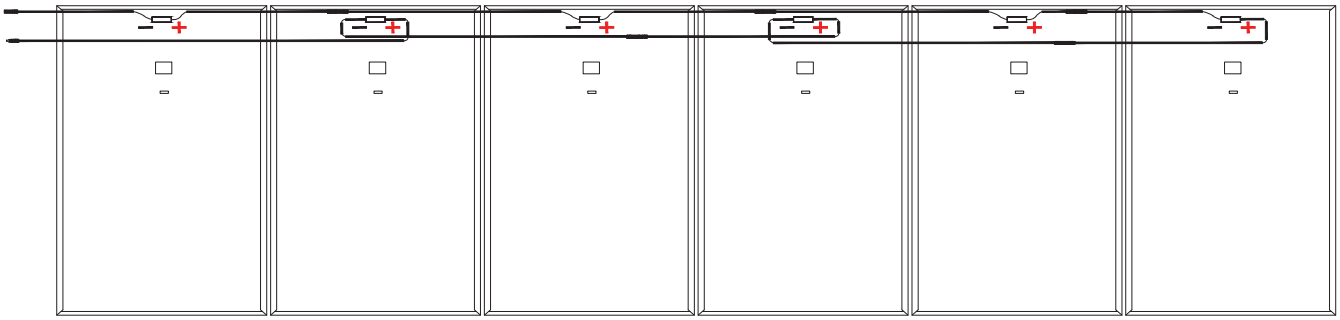
Recommended Cable Management

Maxeon Product Line:

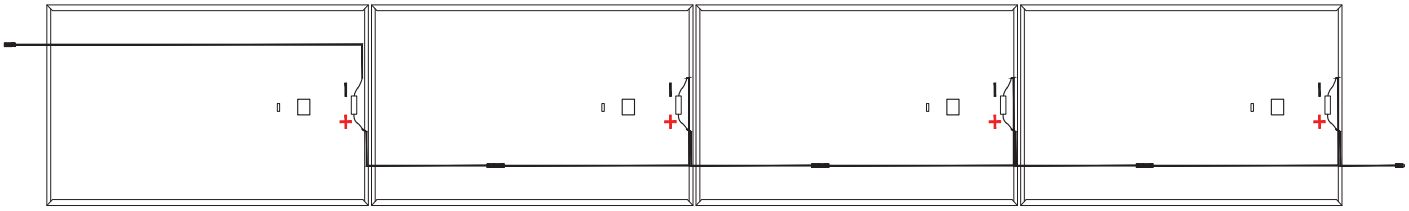
Portrait Stringing



Leapfrog Stringing (Portrait)



Landscape Stringing



***The image is for illustration purposes only**

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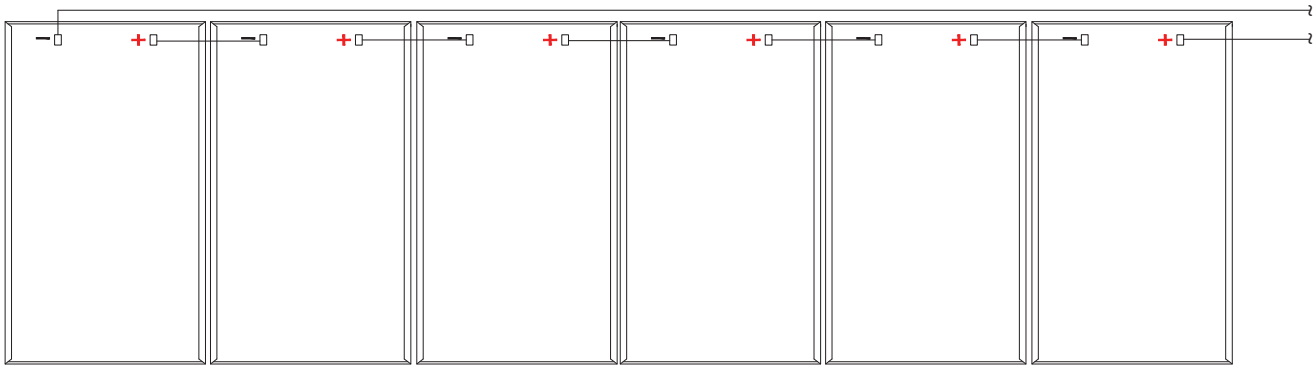
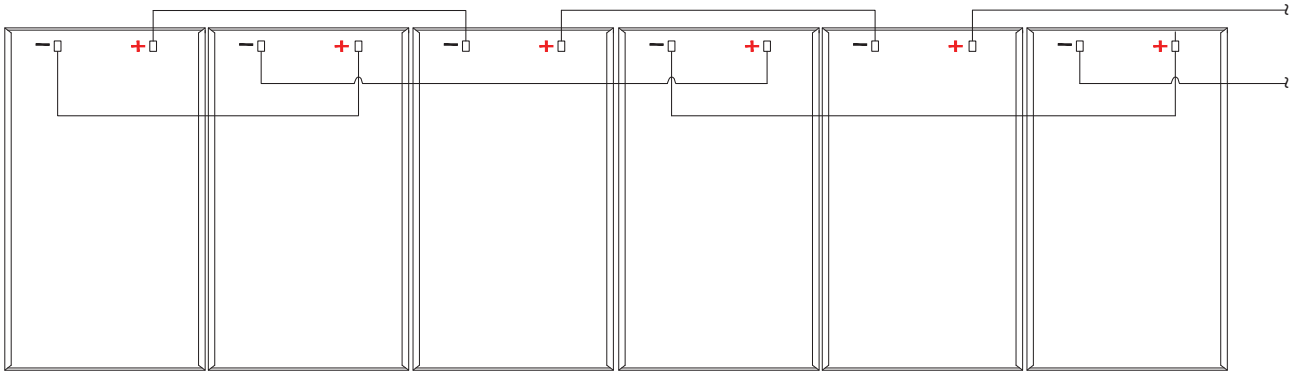
Maxeon 7 Product Line:

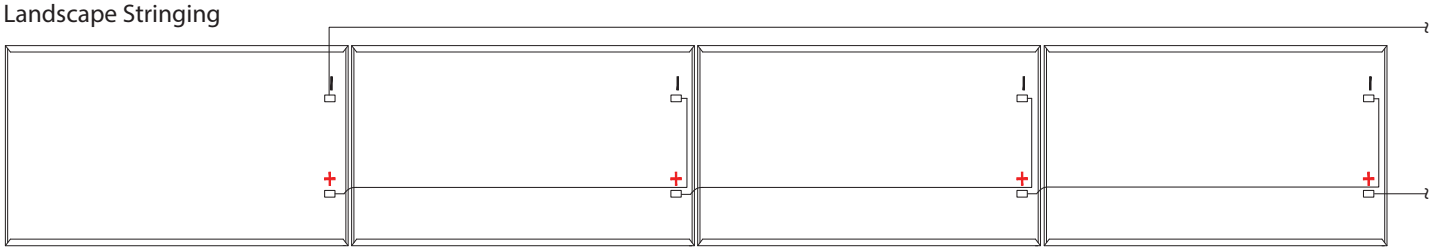
Portrait Stringing



Leapfrog Stringing (Portrait)



Landscape Stringing



***The image is for illustration purposes only**

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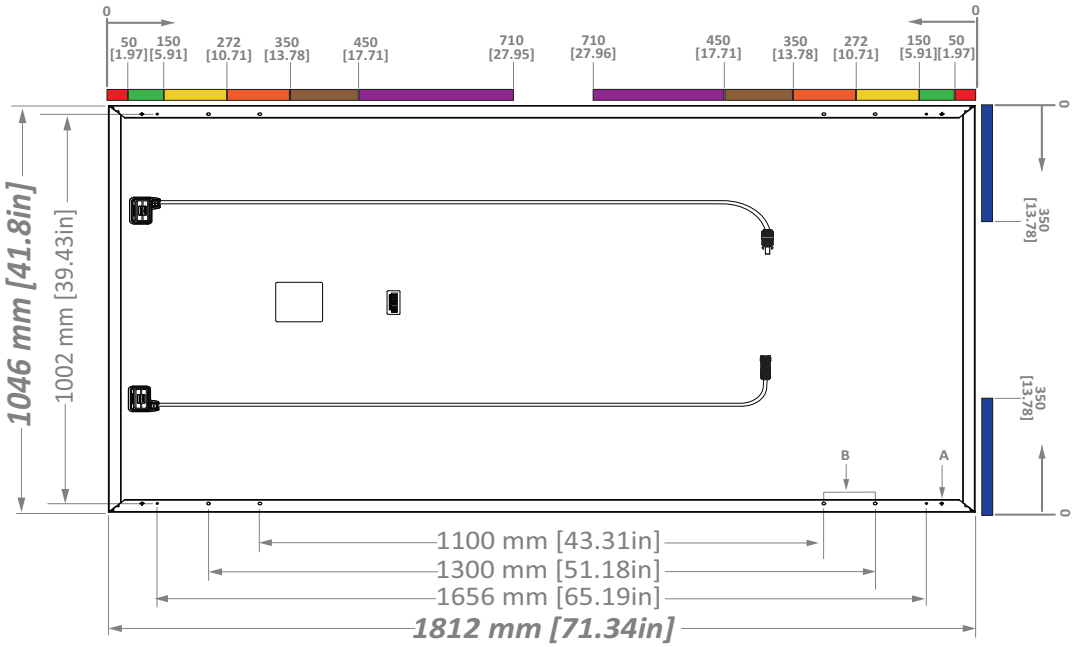
Appendix: Mounting Configurations and Load Ratings

Maxeon 3 112 cells AC Ready Solar Panel

SPR-MAX3-XXX-R, SPR-MAX3-XXX-BLK-R, SPR-MAX3-XXX-COM-R

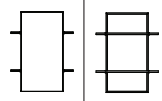
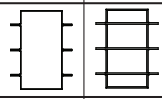
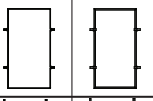
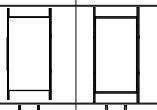
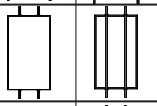
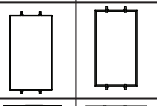
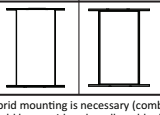
(xxx = 400 - 430 in steps of 5)



Measurement Tolerances are +/-3 mm for the Length and Width of the Module.

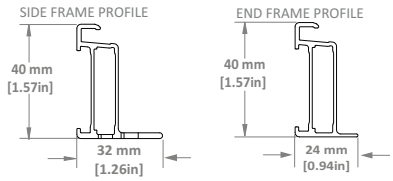
A - Ground Holes (4X Ø4.2mm)
B - Mounting Holes (8X Ø6.8mm)

TOP CLAMPS

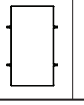
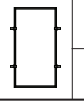
Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame[4]			50 - 150	+2700/-2700	+1800/-1800
			150 - 272	+3600/-3600	+2400/-2400
			272 - 350	+5400/-4200	+3600/-2800
			350 - 450[6]	+5400/-5400	+3600/-3600
			450 - 710[5]	+3600/-2400	+2400/-1600
Long Side Mounting, Rails Perpendincular to Mounting Frame[4]			Outer Clamps: 272 - 453[6] Middle Clamps: 856 - 956[6]	+7400/-7400	+4900/-4900
Long Side Mounting, Point Supported[7]			50 - 150[9]	+2700/-2700	+1800/-1800
			150 - 272[9]	+3600/-3600	+2400/-2400
			272 - 450[9]	+3600/-4200	+2400/-2800
			450 - 710[9]	+3600/-2400	+2400/-1600
Long Side Mounting, Rails Parallel to Mounting Frame[8]			50 - 150[9]	+2700/-2700	+1800/-1800
			150 - 272[9]	+3600/-3600	+2400/-2400
			272 - 450[9]	+3600/-4200	+2400/-2800
			450 - 710[9]	+3600/-2400	+2400/-1600
Short Side Mounting, Rails Perpendicular to Mounting Frame (End Mount)[4]			0 - 350[5]	+2700/-2700	+1800/-1800
Short Side Mounting, Point Supported[7] (End Mount)			0 - 350[9]	+2700/-2700	+1800/-1800
Short Side Mounting, Rails Parallel to Mounting Frame (End Mount)			0 - 350[9]	+2700/-2700	+1800/-1800

1 In the cases where hybrid mounting is necessary (combination of long and short side mounting), the lowest design load values should be considered as allowable design load.
2 Test loads are for information purposes only, design loads should be considered for the project design.
3 Design Load considers 1.5 Factor of Safety, Test load = Design load x 1.5. Product Warranty covers only design load values. The design loads listed in this table supersede all other loads that may be defined by other parties, unless there is a formal authorization by Maxeon.
4 Rails must not be under the junction box.

GEN 5.2 FRAME PROFILE



BOLTS

Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Holes Locations	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame			1300mm Holes	+5400/-5400	+3600/-3600
			1100mm Holes	+5400/-5400	+3600/-3600
Long Side Mounting, Point Supported			1300mm Holes	+3600/-4200	+2400/-2800
			1100mm Holes	+3600/-4200	+2400/-2800

5 Covered under IEC 61730 Cert Test for 104 cell
6 For High Velocity Hurricane Zone (HVHZ), the modules achieved the required test loads. For hurricane zone building code requirements, please check with your installer.
7 Same design loads are acceptable for bottom flange mounting systems.
8 Range indicates the positioning of the clamps and not the rail
9 PV modules may experience slight deflection in certain end-mount applications due to weight distribution. Such deflection does not impact reliability or performance; however if the panels must appear flat for aesthetic purposes, alternate mounting is suggested.

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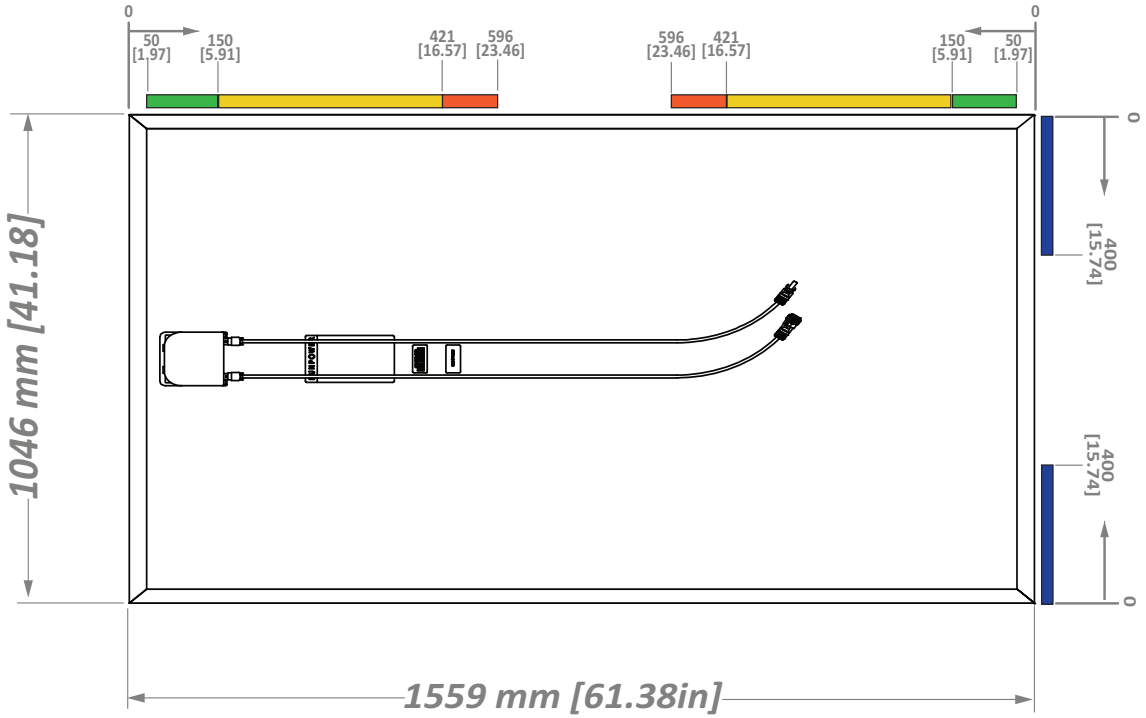
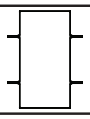
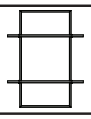
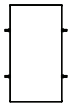
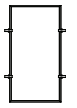
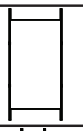
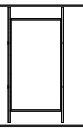
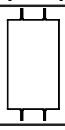
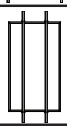
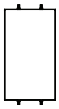
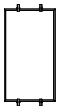
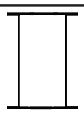
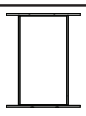
Maxeon 3 96-cell Residential Solar Panel

SPR-Xyy-XXX-BLK

(xxx = 327 - 370in steps of 1)



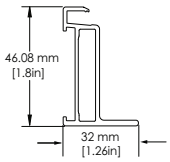
TOP CLAMPS

Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendicular to Mounting Frame[4]			50 - 150	+4500/-4500	+3000/-3000
			150 - 421	+5400/-5400	+3600/-3600
			421 - 596	+3600/-3600	+2400/-2400
Long Side Mounting, Point Supported[5]			50 - 150	+4500/-4500	+3000/-3000
			150 - 421	+5400/-5400	+3600/-3600
			421 - 596	+3600/-3600	+2400/-2400
Long Side Mounting, Rails Parallel to Mounting Frame[6]			50 - 150	+4500/-4500	+3000/-3000
			150 - 421	+5400/-5400	+3600/-3600
			421 - 596	+3600/-3600	+2400/-2400
Short Side Mounting, Rails Perpendicular to Mounting Frame			0 - 400	+4500/-4500	+3000/-3000
Short Side Mounting, Point Supported[5]			0 - 400	+4500/-4500	+3000/-3000
Short Side Mounting, Rails Parallel to Mounting Frame			0 - 400	+4500/-4500	+3000/-3000

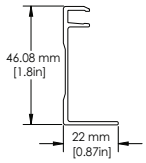
1 In the cases where hybrid mounting is necessary (combination of long and short side mounting), the lowest design load values should be considered as allowable design load.
2 Test loads are for information purposes only, design loads should be considered for the project design.
3 Design Load considers 1.5 Factor of Safety, Test load = Design load x 1.5. Product Warranty covers only design load values. The design loads listed in this table supersede all other loads that may be defined by other parties, unless there is a formal authorization by Maxeon.
4 Rails must not be under the junction box.
5 Same design loads are acceptable for bottom flange mounting systems.
6 Range indicates the positioning of the clamps and not the rails.

GEN 5.0 FRAME PROFILE

SIDE FRAME PROFILE



END FRAME PROFILE



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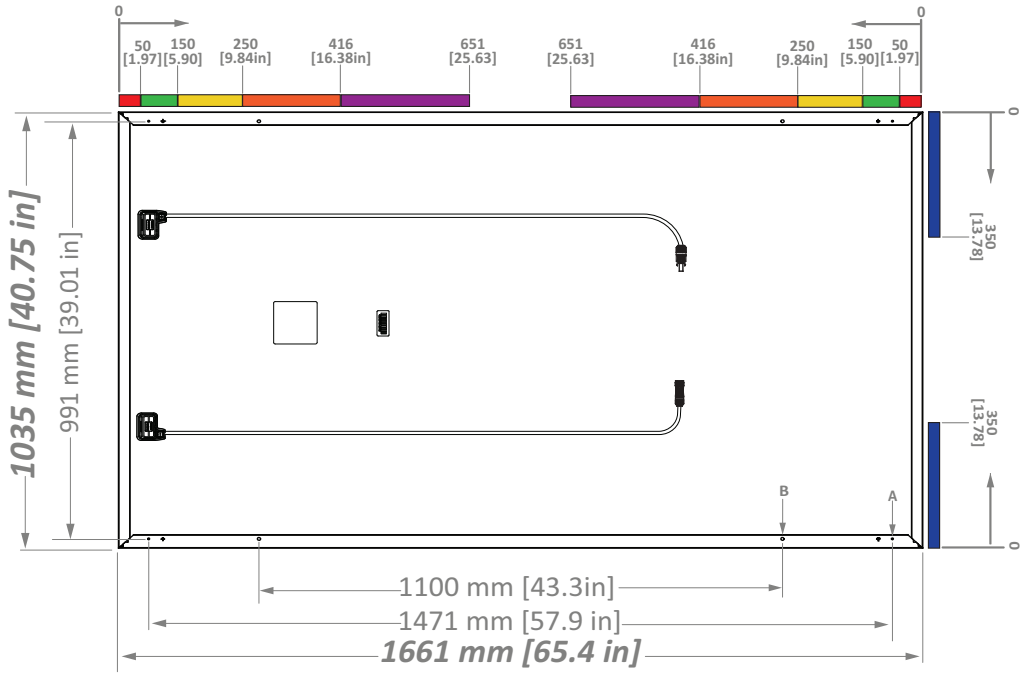
Maxeon 7 104 cells Solar Panel

SPR-MAX7-xxx, SPR-MAX7-xxx-BLK

(xxx = 340 - 400 in steps of 5)

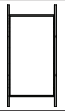
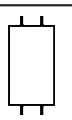
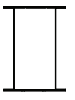
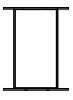


Measurement Tolerances are +/-3 mm for the Length and Width of the Module.

A - Ground Holes (4X Ø4.2mm)

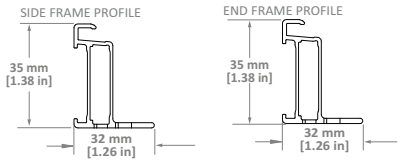
B - Mounting Holes (4X Ø6.8mm)

TOP CLAMPS[9]

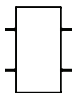
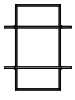
Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame[4]			50 - 150	+2700/-2700	+1800/-1800
			150 - 250	+3600/-3600	+2400/-2400
			250 - 416	+6500/-4200	+4333/-2800
			416 - 651	+4200/-2400	+2800/-1600
Long Side Mounting, Point Supported[5]			50 - 150[7]	+2700/-2700	+1800/-1800
			150 - 250[7]	+3600/-3600	+2400/-2400
			250- 416[7]	+4200/-4200	+2800/-2800
			416 - 651[7]	+3600/-2400	+2400/-1600
Long Side Mounting, Rails Parallel to Mounting Frame[6]			50 - 150[7]	+2700/-2700	+1800/-1800
			150 - 250[7]	+3600/-3600	+2400/-2400
			250 - 416[7]	+4200/-4200	+2800/-2800
			416 - 651[7]	+3600/-2400	+2400/-1600
Short Side Mounting, Rails Perpendicular to Mounting Frame (End Mount)[4]			0 - 350	+2700/-2700	+1800/-1800
Short Side Mounting, Point Supported[5] (End Mount)			0 - 350[7]	+2700/-2700	+1800/-1800
Short Side Mounting, Rails Parallel to Mounting Frame (End Mount)			0 - 350[7]	+2700/-2700	+1800/-1800

1 In the cases where hybrid mounting is necessary (combination of long and short side mounting), the lowest design load values should be considered as allowable design load.
2 Test loads are for information purposes only, design loads should be considered for the project design.
3 Design Load considers 1.5 Factor of Safety, Test load = Design load x 1.5. Product Warranty covers only design load values. The design loads listed in this table supersede all other loads that may be defined by other parties, unless there is a formal authorization by Maxeon.
4 Rails must not be under the junction box.

GEN 5.8 FRAME PROFILE



BOLTS

Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Hole Locations	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame			1100mm Holes[8]	+6500/-5400	+4333/-3600

5 Same design loads are acceptable for bottom flange mounting systems.
6 Range indicates the positioning of the clamps and not the rail
7 PV modules may experience slight deflection in certain end-mount applications due to weight distribution. Such deflection does not impact reliability or performance; however if the panels must appear flat for aesthetic purposes, alternate mounting is suggested.
8 IEC 61730 Cert tested to +5400/-3600 Pa test load with M8 bolts and nuts
9 It is recommended to use a corrugated surface top clamp for high wind load regions.

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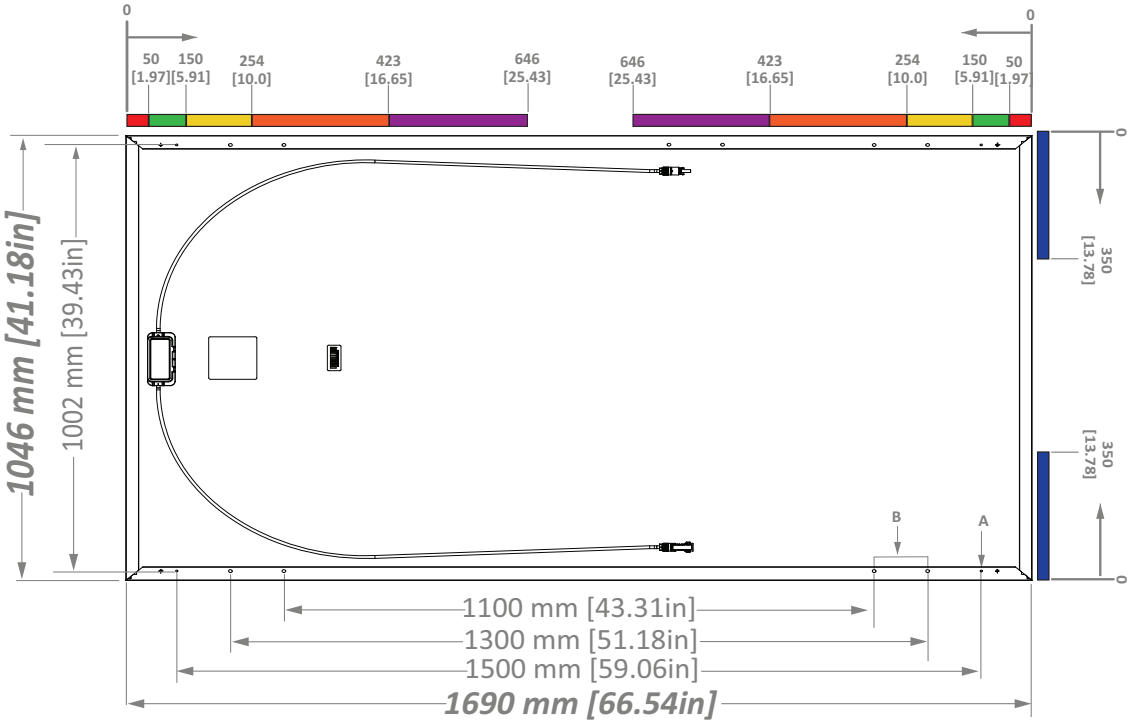
Maxeon 3 104 cells Residential Solar Panel

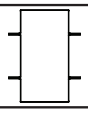
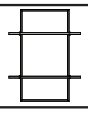
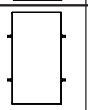
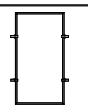
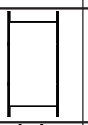
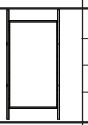
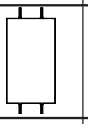
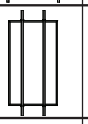
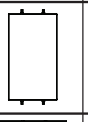
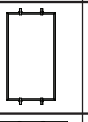
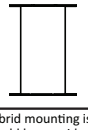
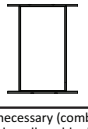
SPR-MAX3-XXX, SPR-MAX3-XXX-BLK

(xxx = 340 - 400 in steps of 5)



A - Ground Holes (4X Ø4.2mm)
B - Mounting Holes (8X Ø6.8mm)

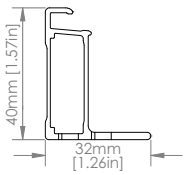
TOP CLAMPS

Mounting Configuration Description[1]	Mounting Configuration Diagram: Front View	Mounting Configuration Diagram: Back View	Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
Long Side Mounting, Rails Perpendincular to Mounting Frame[4]			50 - 150	+2700/-2700	+1800/-1800
			150 - 254	+3600/-3600	+2400/-2400
			254 - 423[5]	+5400/-5400	+3600/-3600
			423 - 646[5]	+3600/-3600	+2400/-2400
Long Side Mounting, Point Supported[6]			50 - 150[8]	+2700/-2700	+1800/-1800
			150 - 254[8]	+3600/-3600	+2400/-2400
			254 - 423[8]	+5400/-5400	+3600/-3600
			423 - 646[8]	+3600/-3600	+2400/-2400
Long Side Mounting, Rails Parallel to Mounting Frame[7]			50 - 150[8]	+2700/-2700	+1800/-1800
			150 - 254[8]	+3600/-3600	+2400/-2400
			254 - 423[8]	+5400/-5400	+3600/-3600
			423 - 646[8]	+3600/-3600	+2400/-2400
Short Side Mounting, Rails Perpendicular to Mounting Frame (End Mount)[4]			0 - 350[5,8]	+2700/-2700	+1800/-1800
Short Side Mounting, Point Supported (End Mount)[6]			0 - 350[8]	+2700/-2700	+1800/-1800
Short Side Mounting, Rails Parallel to Mounting Frame (End Mount)			0 - 350[8]	+2700/-2700	+1800/-1800

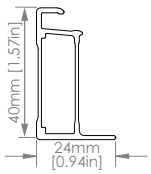
1 In the cases where hybrid mounting is necessary (combination of long and short side mounting), the lowest design load values should be considered as allowable design load.
2 Test loads are for information purposes only, design loads should be considered for the project design.
3 Design Load considers 1.5 Factor of Safety, Test load = Design load x 1.5. Product Warranty covers only design load values. The design loads listed in this table supersede all other loads that may be defined by other parties, unless there is a formal authorization by Maxeon.

GEN 4.2 FRAME PROFILE

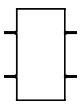
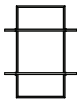
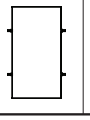
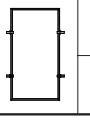
SIDE FRAME PROFILE



END FRAME PROFILE



BOLTS

Mounting Configuration Description[1]	Mounting Configuration Diagram: Front View	Mounting Configuration Diagram: Back View	Mounting Holes Locations	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
Long Side Mounting, Rails Perpendincular to Mounting Frame			1300mm Holes	+8100/-5400	+5400/-3600
			1100mm Holes	+8100/-5400	+5400/-3600
Long Side Mounting, Point Supported[8]			1300mm Holes	+5400/-5400	+3600/-3600
			1100mm Holes	+5400/-5400	+3600/-3600

4 Rails must not be under the junction box.
5 IEC 61730 Cert Tested
6 Same design loads are acceptable for bottom flange mounting systems.
7 Range indicates the positioning of the clamp and not the rail
8 PV modules may experience slight deflection in certain end-mount applications due to weight distribution. Such deflection does not impact reliability or performance; however if the panels must appear flat for aesthetic purposes, alternate mounting is suggested.

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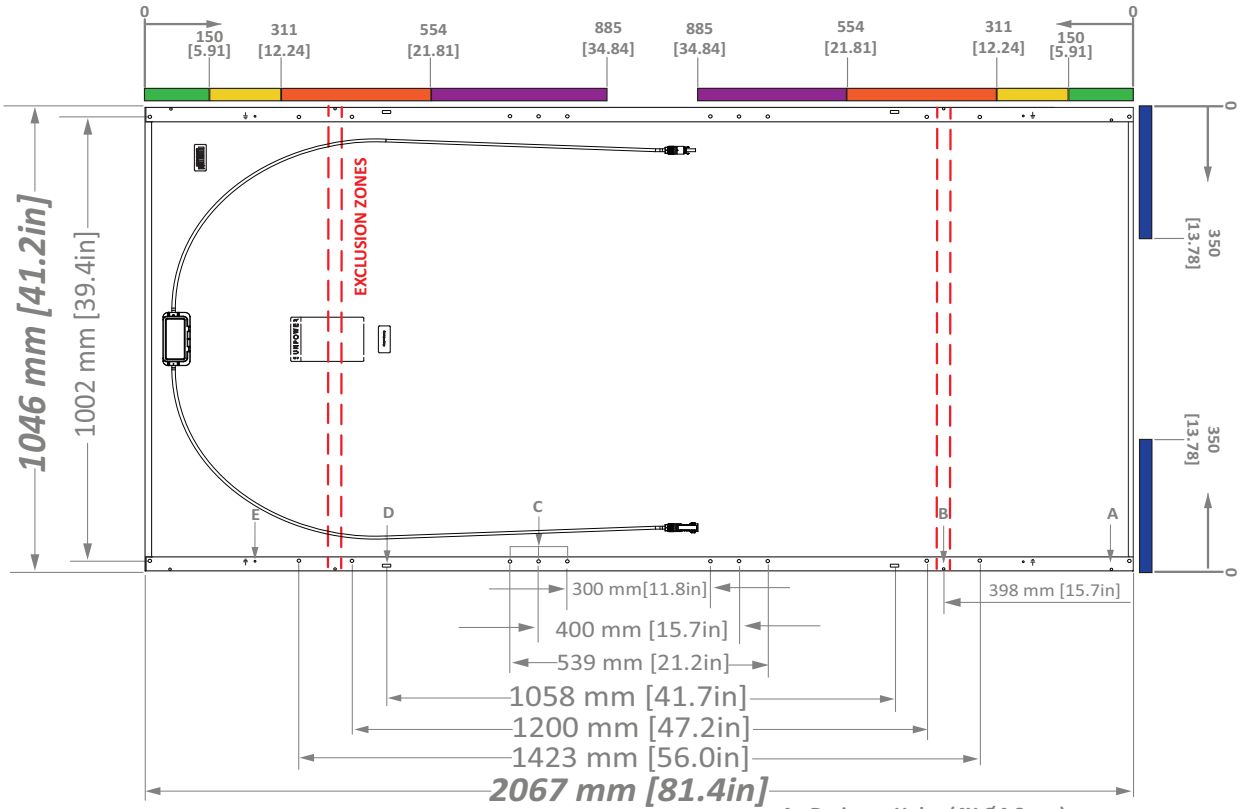
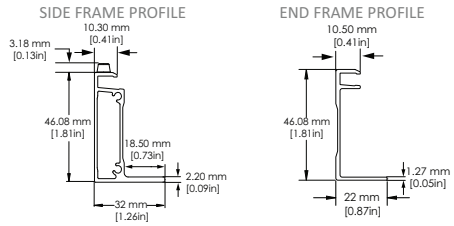
Maxeon 3 128 cells Solar Panel
SPR-Xyy-XXX-COM
(xxx = 420 - 485 in steps of 1)



Measurement Tolerances are +/-3 mm for the Length and Width of the Module.

A - Drainage Holes (4X Ø4.8mm)
B - Stacking Pins (4X Ø6.10mm)
C - Mounting Holes (24X Ø6.8mm)
D - SLOTS (4X 5.0mm(W) x 15.0mm(L))
E - Ground Holes (4X Ø4.2mm)

GEN 4.0 FRAME PROFILE



TOP CLAMPS

Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame[4]			0 - 150	+2000/-2000	+1333/-1333
			150 - 311	+5400/-3600	+3600/-2400
			311 - 554[5]	+5400/-3600	+3600/-2400
			554 - 885	+5400/-3600	+3600/-2400
Long Side Mounting, Point Supported[6]			0 - 150[8]	+2000/-2000	+1333/-1333
			150 - 311[8]	+3600/-3600	+2400/-2400
			311 - 554[5,8]	+5400/-3600	+3600/-2400
			554 - 885[8]	+3600/-3600	+2400/-2400
Long Side Mounting, Rails Parallel to Mounting Frame[7]			0 - 150[8]	+2000/-2000	+1333/-1333
			150 - 311[8]	+3600/-3600	+2400/-2400
			311 - 554[5,8]	+5400/-3600	+3600/-2400
			554 - 885[8]	+3600/-3600	+2400/-2400
Short Side Mounting, Rails Perpendicular to Mounting Frame (End Mount)[4]			0 - 350	+2400/-2400	+1600/-1600
Short Side Mounting, Point Supported (End Mount)[6]			0 - 350[8]	+2000/-2000	+1333/-1333
Short Side Mounting, Rails Parallel to Mounting Frame (End Mount)			0 - 350[8]	+2400/-2400	+1600/-1600

1 In the cases where hybrid mounting is necessary (combination of long and short side mounting), the lowest design load values should be considered as allowable design load.
2 Test loads are for information purposes only, design loads should be considered for the project design.
3 Design Load considers 1.5 Factor of Safety, Test load = Design load x 1.5. Product Warranty covers only design load values. The design loads listed in this table supersede all other loads that may be defined by other parties, unless there is a formal authorization by Maxeon.

BOLTS

Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Holes Locations	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame			1423mm Holes	+5400/-3600	+3600/-2400
			1200mm Holes	+5400/-3600	+3600/-2400
			539mm Holes	+3600/-3600	+2400/-2400
			400mm Holes	+3600/-3600	+2400/-2400
			300mm Holes	+3600/-3600	+2400/-2400
Long Side Mounting, Point Supported[8]			1423mm Holes	+5400/-3600	+3600/-2400
			1200mm Holes	+5400/-3600	+3600/-2400
			539mm Holes	+3600/-3600	+2400/-2400
			400mm Holes	+3600/-3600	+2400/-2400
			300mm Holes	+3600/-3600	+2400/-2400

4 Rails must not be under the junction box.
5 There is a 20mm zone at 388-408mm from the corner where mounting is not allowed due to the stacking pin.
6 Same design loads are acceptable for bottom flange mounting systems.
7 Range indicates the positioning of the clamps not the rails.
8 PV modules may experience slight deflection in certain end-mount applications due to weight distribution. Such deflection does not impact reliability or performance; however if the panels must appear flat for aesthetic purposes, alternate mounting is suggested.

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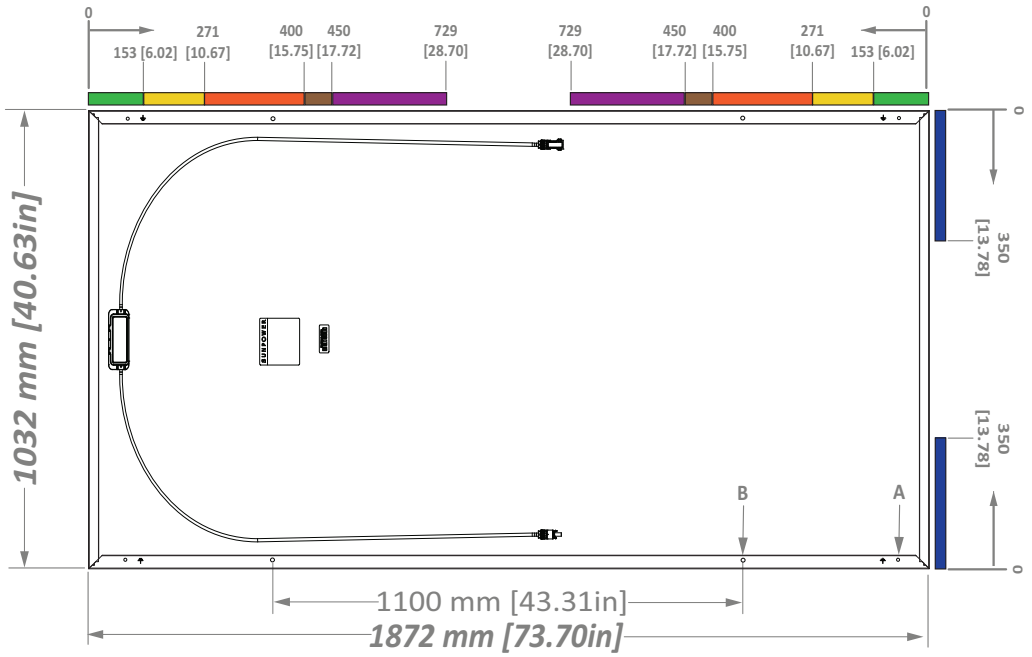
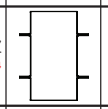
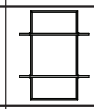
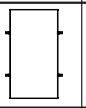
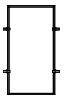
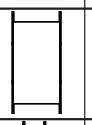
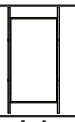
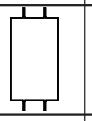
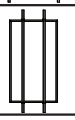
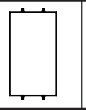
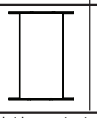
Maxeon 6 66 cells Residential Solar Panel
SPR-MAX6-XXX, SPR-MAX6-XXX-BLK
(xxx = 410 - 445 in steps of 5)



A - Ground Holes (4X Ø4.2mm)
B- Mounting Holes (4X Ø6.8mm)

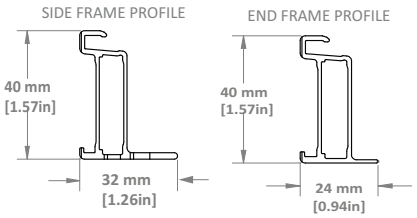
Measurement Tolerances are +/-3 mm for the Length and Width of the Module.

TOP CLAMPS

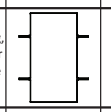
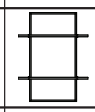
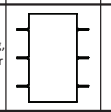
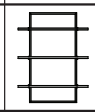
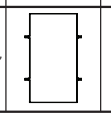
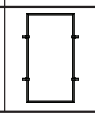
Mounting Configuration Description[1]	Mounting Configuration Diagram: Front View	Mounting Configuration Diagram: Back View	Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
Long Side Mounting, Rails Perpendincular to Mounting Frame[4]			0 - 153	+2400/-2400	+1600/-1600
			153 - 271	+2400/-2550	+1600/-1700
			271 - 400	+5400/-4050	+3600/-3700
			400 - 450	+7400/-4500	+4933/-3000
			450 - 729	+2400/-2550	+1600/-1700
Long Side Mounting, Point Supported[5]			0 - 153[7]	+2400/-2400	+1600/-1600
			153 - 271[7]	+2400/-2400	+1600/-1600
			271 - 525[7]	+2400/-3600	+1600/-2400
			525 - 729[7]	+2400/-2400	+1600/-1600
Long Side Mounting, Rails Parallel to Mounting Frame (End Mount)[6]			0 - 153[7]	+2400/-2400	+1600/-1600
			153 - 271[7]	+2400/-2400	+1600/-1600
			271 - 525[7]	+2400/-3600	+1600/-2400
			525 - 729[7]	+2400/-2400	+1600/-1600
Short Side Mounting, Rails Perpendicular to Mounting Frame (End Mount)[4]			0 - 350	+3600/-2400	+2400/-1600
Short Side Mounting, Point Supported (End Mount)			0 - 350[7]	+2400/-2400	+1600/-1600
Short Side Mounting, Rails Parallel to Mounting Frame (End Mount)			0 - 350[7]	+2400/-2400	+1600/-1600

1 In the cases where hybrid mounting is necessary (combination of long and short side mounting), the lowest design load values should be considered as allowable design load.
2 Test loads are for information purposes only, design loads should be considered for the project design.
3 Design Load considers 1.5 Factor of Safety, Test load = Design load x 1.5. Product Warranty covers only design load values. The design loads listed in this table supersede all other loads that may be defined by other parties, unless there is a formal authorization by Maxeon.
4 Rails must not be under the junction box.

GEN 5.2 FRAME PROFILE



BOLTS

Mounting Configuration Description[1]	Mounting Configuration Diagram: Front View	Mounting Configuration Diagram: Back View	Mounting Holes Location	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
Long Side Mounting, Rails Perpendincular to Mounting Frame			**1100mm Holes**	+5400/-4200	+3600/-2800
Long Side Mounting, Rails Perpendincular to Mounting Frame[8]			**Outer: Bolts 1100mm Holes + Middle: Clamps 886 - 986**	+9000/-6000	+6000/-4000
Long Side Mounting, Point Supported[7]			**1100mm Holes**	+2400/-3600	+1600/-2400

5 Same design loads are acceptable for bottom flange mounting systems.
6 Range indicates the positioning of the the clamps not the rails.
7 PV modules may experience slight deflection in certain end-mount applications due to weight distribution. Such deflection does not impact reliability or performance; however if the panels must appear flat for aesthetic purposes, alternate mounting is suggested.
8 For High Velocity Hurricane Zone (HVHZ), the modules achieved the required test loads. For hurricane zone building code requirements, please check with your installer.

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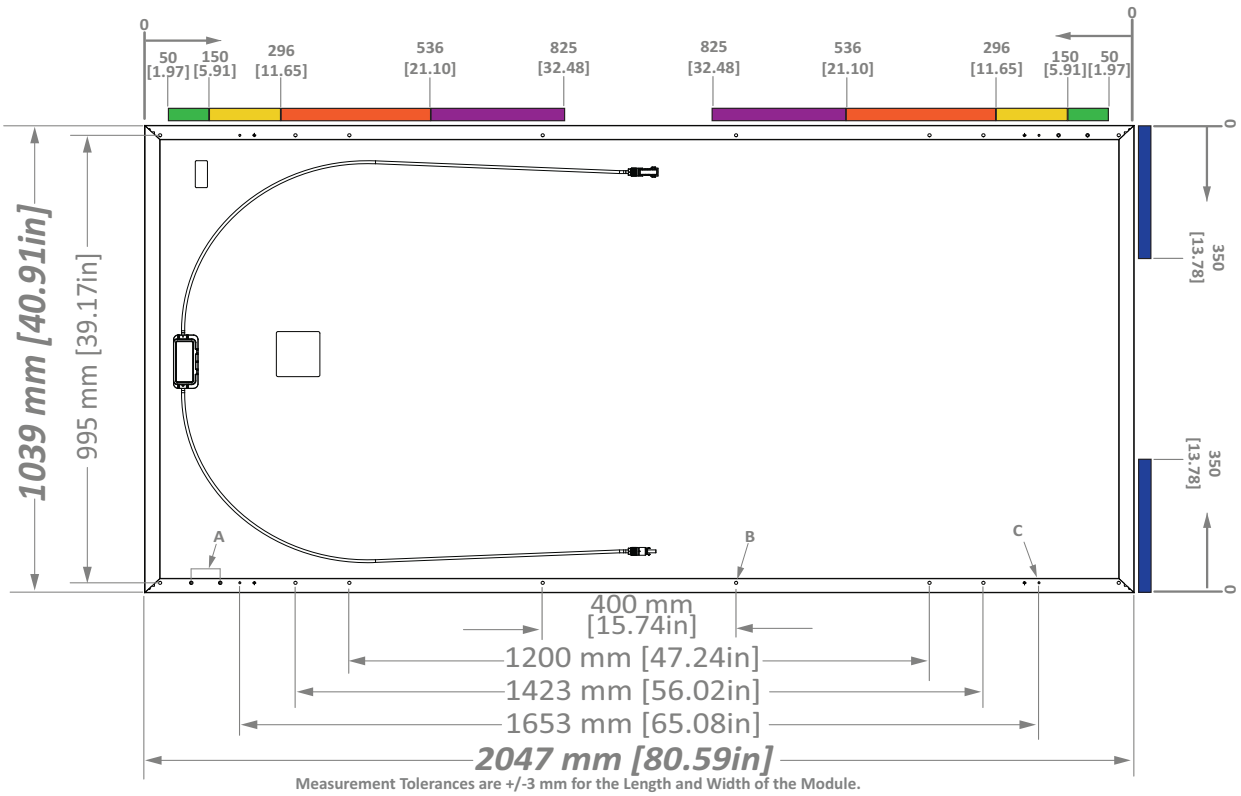
Maxeon 6 72 cells Commercial Solar Panel

SPR-MAX6-XXX-COM

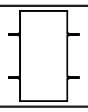
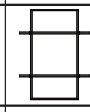
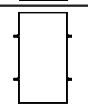
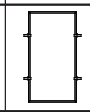
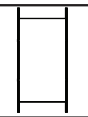
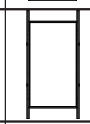
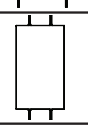
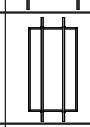
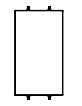
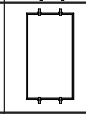
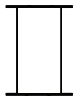
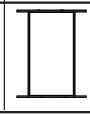
(xxx = 435 - 475 in steps of 5)



Measurement Tolerances are +/-3 mm for the Length and Width of the Module.

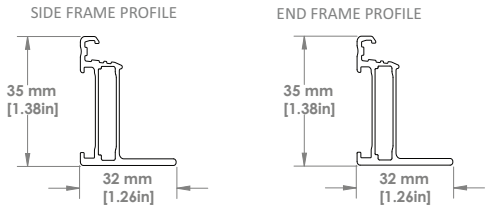
A - MLSD Holes
B - Mounting Holes (16X Ø6.8mm)
C - Ground Holes (4X Ø4.2mm)

TOP CLAMPS/INVISIMOUNT

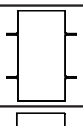
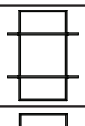
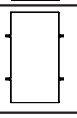
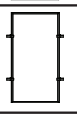
Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendicular to Mounting Frame[4]			50 - 150	+1800/-1600	+1200/-1067
			150 - 296	+2400/-2400	+1600/-1600
			296 - 536	+5400/-3600	+3600/-2400
			536 - 825	+2400/-2400	+1600/-1600
Long Side Mounting, Point Supported[5]			50 - 150[7]	+1800/-1600	+1200/-1067
			150 - 296[7]	+2400/-2400	+1600/-1600
			296 - 536[7]	+5400/-2400	+3600/-1600
			536 - 825[7]	+2400/-2400	+1600/-1600
Long Side Mounting, Rails Parallel to Mounting Frame[6]			50 - 150[7]	+1800/-1600	+1200/-1067
			150 - 296[7]	+2400/-2400	+1600/-1600
			296 - 536[7]	+5400/-2400	+3600/-1600
			536 - 825[7]	+2400/-2400	+1600/-1600
Short Side Mounting, Rails Perpendicular to Mounting Frame (End Mount)[4]			0 - 350	+2400/-1600	+1600/-1067
Short Side Mounting, Point Supported (End Mount)[5]			0 - 350[7]	+1800/-1600	+1200/-1067
Short Side Mounting, Rails Parallel to Mounting Frame (End Mount)			0 - 350[7]	+1800/-1600	+1200/-1067

1 In the cases where hybrid mounting is necessary (combination of long and short side mounting), the lowest design load values should be considered as allowable design load.
2 Test loads are for information purposes only, design loads should be considered for the project design.
3 Design Load considers 1.5 Factor of Safety, Test load = Design load x 1.5. Product Warranty covers only design load values. The design loads listed in this table supersede all other loads that may be defined by other parties, unless there is a formal authorization by Maxeon.

GEN 5.6 FRAME PROFILE



BOLTS

Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Holes Locations	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame			1423mm Holes	+5400/-4500	+3600/-3000
			1200mm Holes	+5400/-4500	+3600/-3000
			400mm Holes	+2400/-2400	+1600/-1600
Long Side Mounting, Point Supported[7]			1423mm Holes	+2400/-4500	+1600/-3000
			1200mm Holes	+2400/-4500	+1600/-3000
			400mm Holes	+2400/-2400	+1600/-1600

4 Rails must not be under the junction box.
5 Same design loads are acceptable for bottom flange mounting systems.
6 Range indicates the positioning of the clamps not the rails.
7 PV modules may experience slight deflection in certain end-mount applications due to weight distribution. Such deflection does not impact reliability or performance; however if the panels must appear flat for aesthetic purposes, alternate mounting is suggested.

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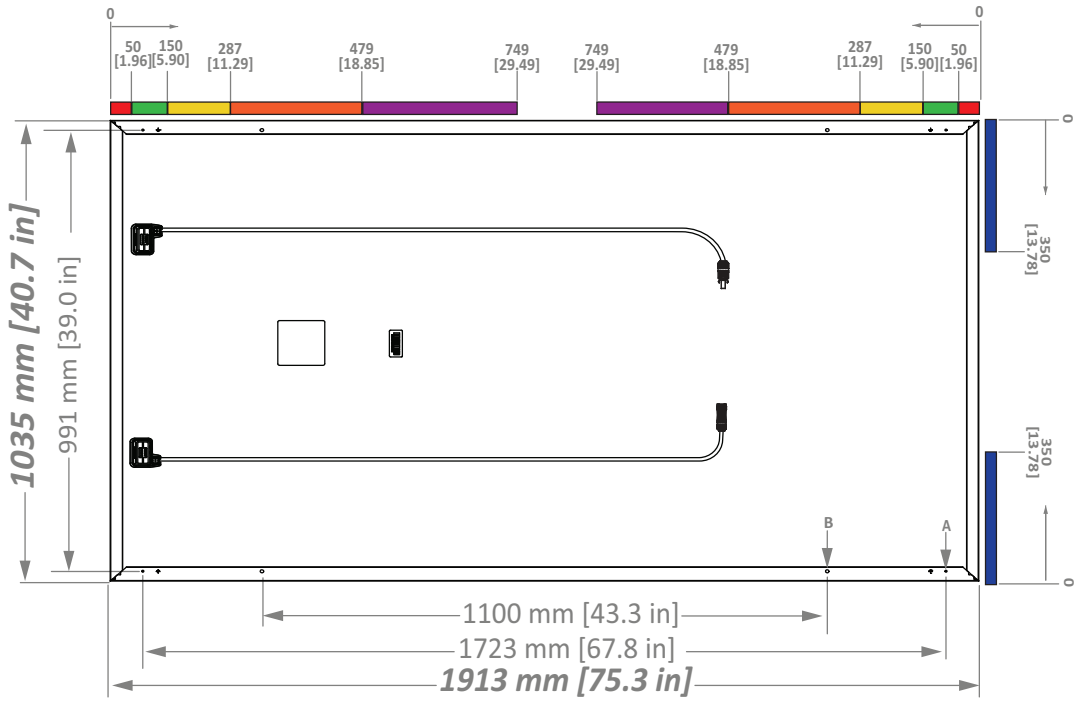
Maxeon 7 120 cells Solar Panel
(SPR-MAX7-XXX, SPR-MAX7-XXX-BLK)

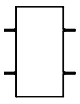
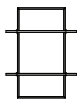
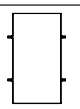
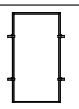
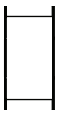
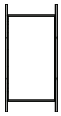
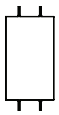
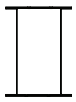
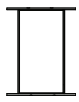


Measurement Tolerances are +/-3 mm for the Length and Width of the Module.

A - Ground Holes (4X Ø4.2mm)

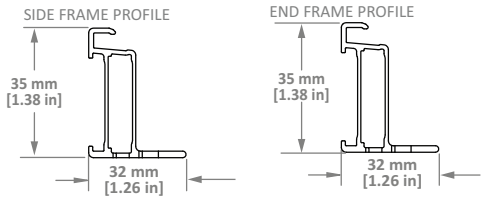
B - Mounting Holes (4X Ø6.8mm)

TOP CLAMPS[9]

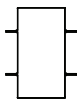
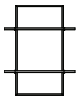
Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame[4]			50 - 150	+2700/-2700	+1800/-1800
			150 - 287	+3600/-3600	+2400/-2400
			287 - 479	+5400/-4050	+3600/-2700
			479 - 749	+1600/-1600	+1067/-1067
Long Side Mounting, Point Supported[5]			50 - 150[7]	+2700/-2700	+1800/-1800
			150 - 287[7]	+3600/-3600	+2400/-2400
			287- 479[7]	+3000/-3000	+2000/-2000
			479 - 749[7]	+1600/-1600	+1067/-1067
Long Side Mounting, Rails Parallel to Mounting Frame[6]			50 - 150[7]	+2700/-2700	+1800/-1800
			150 - 287[7]	+3600/-3600	+2400/-2400
			287 - 479[7]	+3000/-3000	+2000/-2000
			479 - 749[7]	+1600/-1600	+1067/-1067
Short Side Mounting, Rails Perpendicular to Mounting Frame (End Mount)[4]			0 - 350	+2400/-2000	+1600/-1333
Short Side Mounting, Point Supported[5] (End Mount)			0 - 350[7]	+2400/-2000	+1600/-1333
Short Side Mounting, Rails Parallel to Mounting Frame (End Mount)			0 - 350[7]	+2400/-2000	+1600/-1333

1 In the cases where hybrid mounting is necessary (combination of long and short side mounting), the lowest design load values should be considered as allowable design load.
2 Test loads are for information purposes only, design loads should be considered for the project design.
3 Design Load considers 1.5 Factor of Safety, Test load = Design load x 1.5. Product Warranty covers only design load values. The design loads listed in this table supersede all other loads that may be defined by other parties, unless there is a formal authorization by Maxeon.
4 Rails must not be under the junction box.

GEN 5.8 FRAME PROFILE



BOLTS

Mounting Configuration Description[1]	Mounting Configuration Diagram		Mounting Zone Locations (distance from corner in mm)	Test Load[2] Downward/Upward (Pa)	Design Load[3] Downward/Upward (Pa)
	Front View	Back View			
Long Side Mounting, Rails Perpendincular to Mounting Frame			1100mm Holes[8]	+6500/-5400	+4333/-3600

5 Same design loads are acceptable for bottom flange mounting systems.
6 Range indicates the positioning of the clamps and not the rail
7 PV modules may experience slight deflection in certain end-mount applications due to weight distribution. Such deflection does not impact reliability or performance; however if the panels must appear flat for aesthetic purposes, alternate mounting is suggested.
8 IEC 61730 Cert tested to +5400/-3600 Pa test load with M8 bolts and nuts
9 It is recommended to use a corrugated surface top clamp for high wind load regions.

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