

## PEGASUS SOLAR QUICK START INSTRUCTIONS

### WARNING

Stainless fasteners are susceptible to galling or seizing up. To prevent galling:

- Keep stainless steel parts (i.e., the Single Mount nut and bolt) out of sunlight and away from heat
- Tighten nuts and bolts with a hand tool to reduce heat caused by friction

**DO NOT USE POWER TOOLS!**



#### CERTIFICATIONS AND CODE COMPLIANCE

- UL Subject 2703, for Electrical Bonding and Grounding
- ASCE 7-05 Minimum Design Loads for Buildings and Other Structures
- ASCE 7-10 Minimum Design Loads for Buildings and Other Structures
- Fire Class A for steep-slope roof applications when using Type 1 and Type 2 listed PV modules (skirt optional)
- Fire Class A for low-slope roof applications when using Type 1 and Type 2 listed PV modules when using skirt with 2 1/8" or less gap between roof and skirt
- Flashing AC286 Tested with and without sue of sealant

### SAFETY:

- Wear proper OSHA approved safety equipment when working on a roof
- Wear proper eye and fall protection
- Use properly anchored fall protection equipment LightSpeed Mount products are not rated as fall protection equipment and should not be used as such

**PEGASUS SOLAR WARRANTY AND SUPPORT INFORMATION AVAILABLE AT:**  
**WWW.PEGASUSSOLAR.COM/WARRANTY | SUPPORT@PEGASUSSOLAR.COM**

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WEEB-LUG-8.0

**UL 467 AND UL SUB 2703  
TESTED AND CERTIFIED**

Maximum Contiguous Modules	100
Fuse Amp Rating	20 amps
Minimum Gauge Wire	10 awg
Wire Type	Bare Copper
Module Frame Thickness	32-40mm

### TOOL LIST:

- |                     |                               |
|---------------------|-------------------------------|
| Tape measure        | 7/32" jobber bit              |
| Roof chalk          | Proper roof sealant           |
| Roofing knife/snips | Roofing/Shingle bar           |
| Chalk line          | Drill motor                   |
| String line         | 1/2" Deep socket with adapter |



### COMPONENTS:



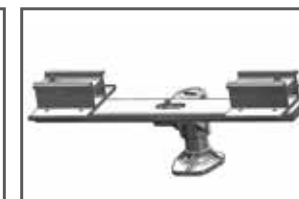
Single Mounting  
Assembly with  
Flashing and Base



5/16" Stainless Steel  
Lag Bolt



5/16" x 1.5" Corner Bolt



Double Mounting  
Assembly

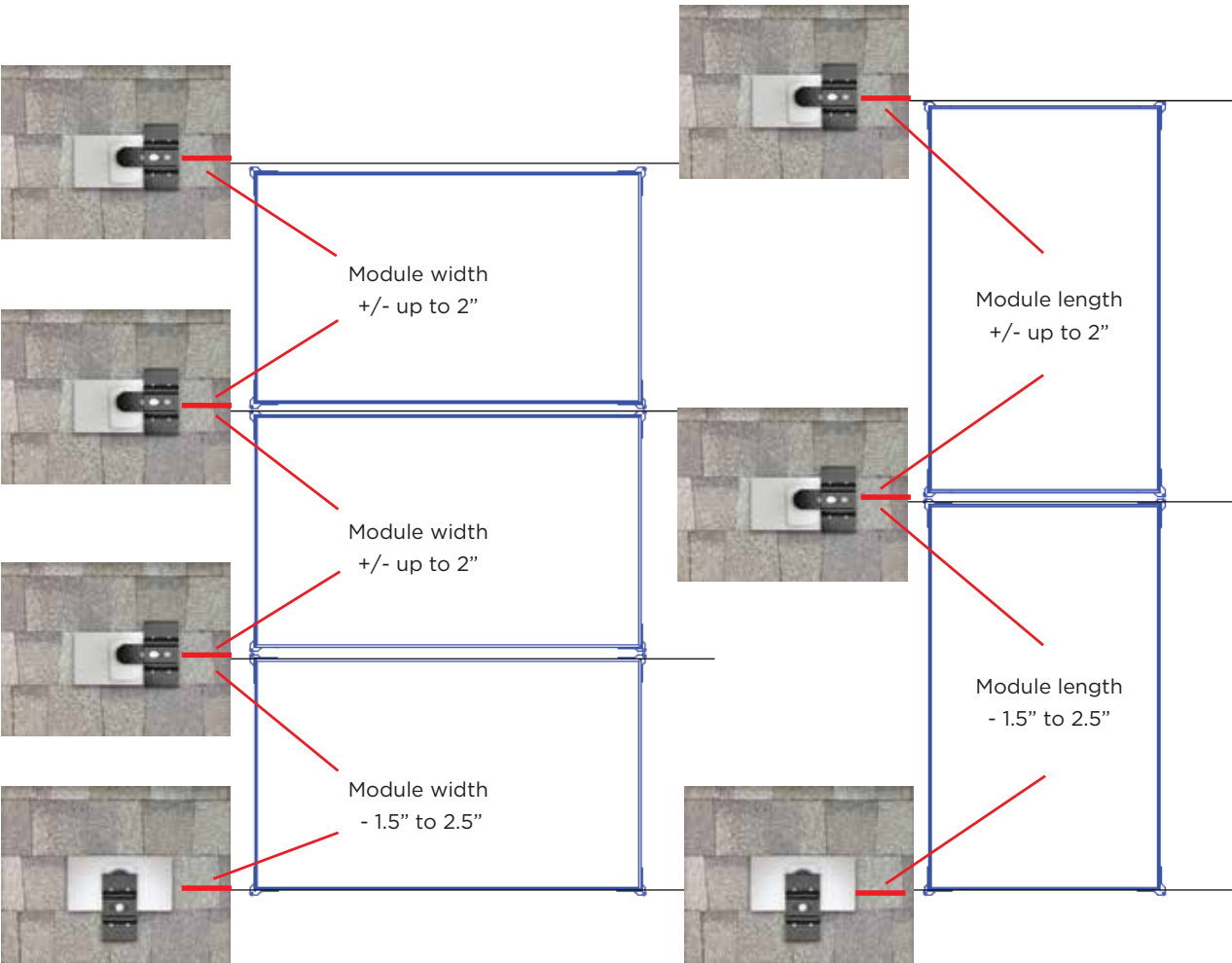
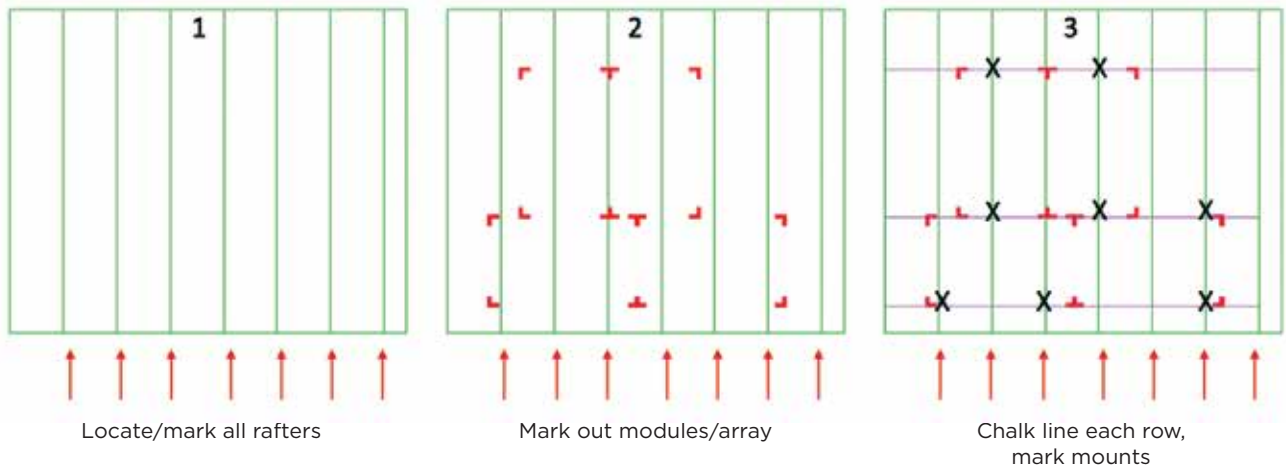


Skirt—Portrait or  
Landscape

LAYOUT:

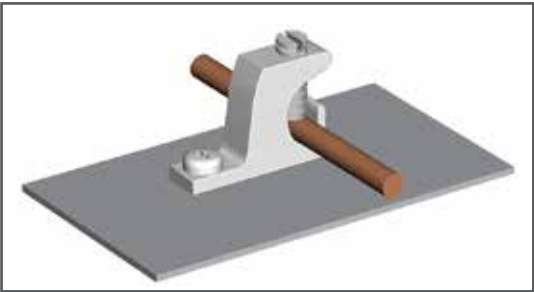
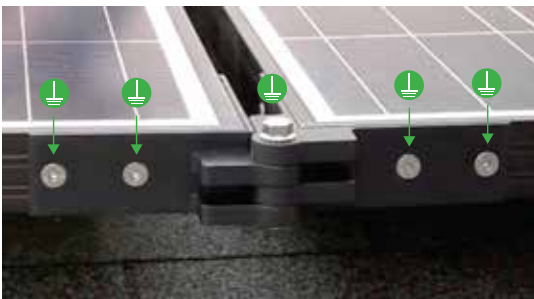
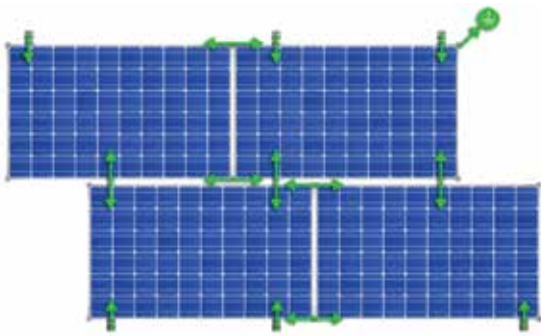
Measure out and mark array on roof according to approved plans. Use a chalk line for each row of Mounting Assemblies. Each row can be adjusted up to 2" north or south for optimum shingle coursing placement. Attachment points may be staggered from row to row.

- MAXIMUM SPAN: Landscape 72", portrait 48"
- MAXIMUM CANTILEVER FROM MODULE EDGE TO CLAMP EDGE: 19"
- MINIMUM DISTANCE TO EVE: 6"



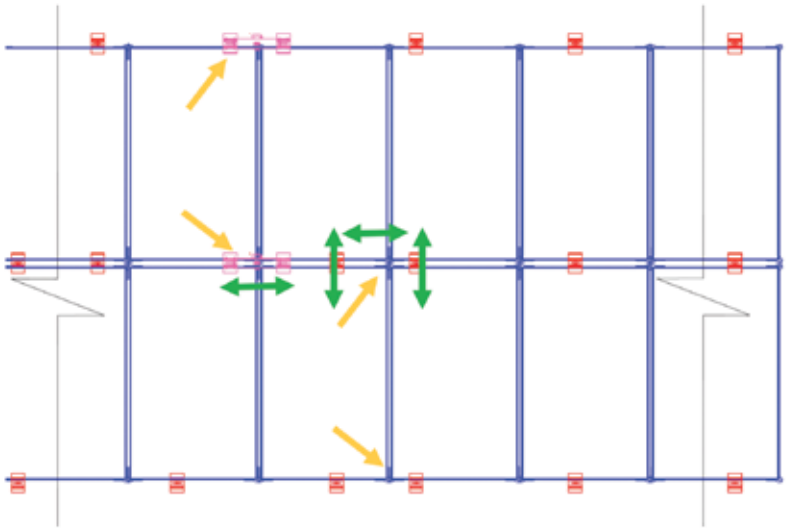
GROUNDING AND BONDING:

Factory installed Corner Hinges ground together with each Corner Bolt installed. Assembly Clamps ground to modules with integrated grounding pins.



Up to 100 contiguous modules in one array may be grounded with one ground lug. Install a WEEB LUG 8.0 with a 5/16" stainless steel bolt and flanged nut through any open Corner Hinge. A standard UL listed frame ground lug with WEEB washers can also be used.

THERMAL BREAK:



For 60-cell modules, leave a thermal break for expansion and contraction between columns every 10 modules in landscape or 15 modules in portrait by removing both Corner Bolts. Thermal breaks are necessary for the system in portrait module rows of more than 15 modules or landscape module rows of more than 10 modules. Place corner bolts in the corner hinges of modules (15 to 16 in portrait, 10 to 11 in landscape) for alignment purposes only. Do not torque down. Once the next module is completely installed, remove these bolts.



MODULE INSTALLATION:

Place module onto lower Assembly Clamps then lower onto second row of Assembly Clamps. Tighten Assemblies to 135 inch-pounds when modules on both sides of Clamps are in place.



First row of Mounts facing down the roof, set module onto Mount.



Rotate the second row of Mounts onto module.



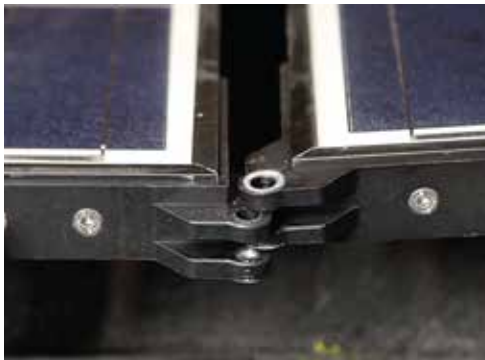
Double Assembly spans Corner Hinges.



Double Assembly increases cantilever.

CORNER HINGES:

Factory installed Corner Hinges fit together in any orientation. Lay modules into Mounting Clamps close to one another then slide Corners together, threads always on the bottom. Insert stainless steel Corner Bolt and tighten to 170 inch-pounds.



FLASHING INSTALLATION:

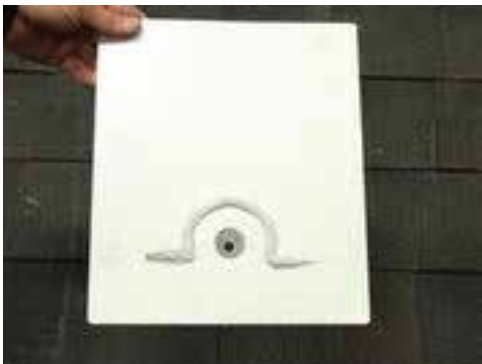
Use a roofing bar to loosen shingles above the attachment point. Slide flashing under shingles and center volcano over the pilot hole.



Drill pilot hole into rafter with a 7/32" drill bit.



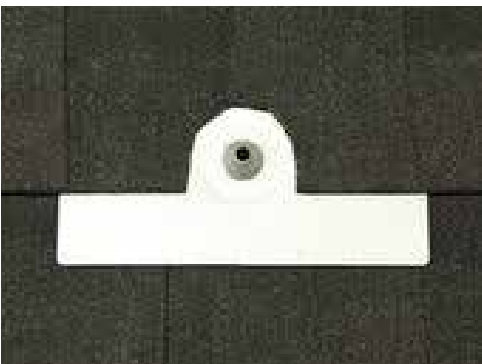
Filling volcano with approved sealant is recommended.



Adding sealant under flashing is optional.



**OK**  
Flashing extends fully under two courses of shingles.



**OK**  
If required, trim shingle to fit around Base.



**NOT OK**  
Flashing must NOT extend beyond the bottom of the first shingle course.



**BASE AND ASSEMBLY INSTALLATION:**  
Place Base onto flashing, insert lag bolt, and install with a 1/2" socket and impact drill.



**OK**  
Duck foot facing down the roof.



**OK**  
Notching shingle around base.



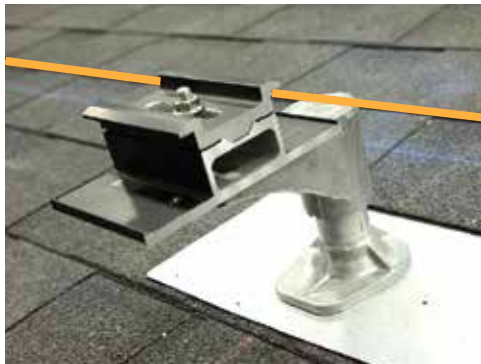
**NOT OK**  
Duck foot not correct.



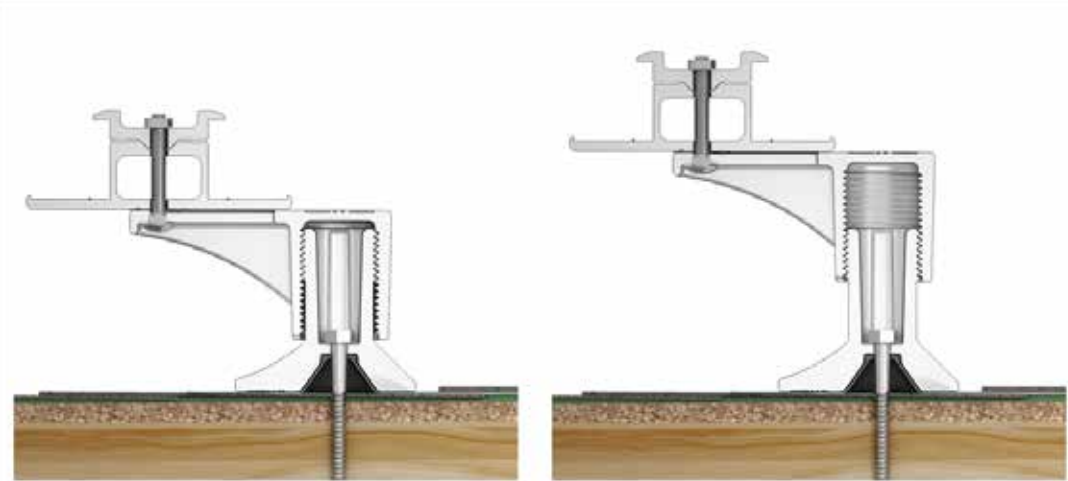
Place Mount on Base and spin clockwise.



Spin on all Single Mounts a minimum of 4X. Double Mounts 8X.



Run a string across each row of Mounting Arms to begin leveling.



Each rotation of the Assembly provides an 1/8" of leveling up or down. Maximum leveling is 1.5".  
  
ASSEMBLIES MUST BE INSTALLED A MINIMUM OF 4 SPINS ONTO THE BASE.

**SKIRT INSTALLATION (OPTIONAL):**  
Skirts come in portrait and landscape lengths and install on the bottom row of the array. Remove the nut on the front Clamps, place skirt over bolt, install nut onto Clamp. Insert each adjacent skirt into the next tightly before tightening the flange nut. Skirts can be installed before or after modules. It is recommended to be installed before.



**WIRE MANAGEMENT:**



Home run and jumper wires should be run prior to module installation. A/C conduit and combiner boxes should be complete.



Install MLPE Bracket on module. Micro-inverter or optimizer. Wire management should be done on the ground before module installation.



Slightly braid the module wires and connect them to the micro-inverter or optimizer. Secure wires to module frame using stainless steel wire clips.

