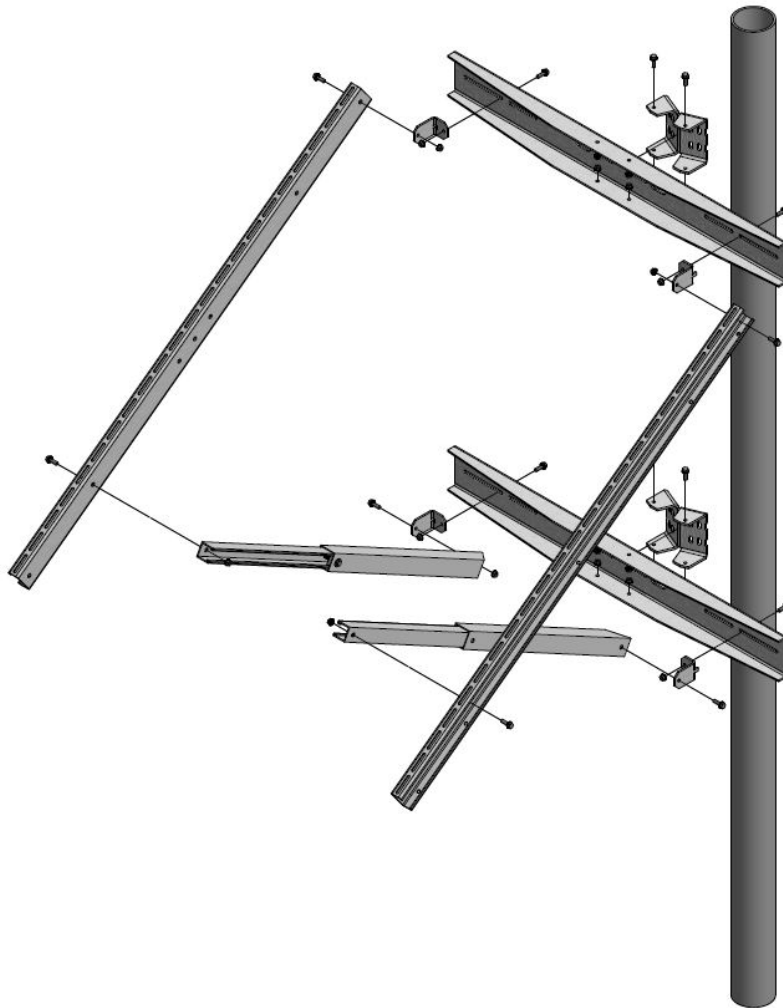


SunWize Power & Battery Mount Installation Guide Side of Pole





Mount Assembly and Installation: (SOP) Side-Of-Pole Mounts

Each rack is optimized for specific pole diameter ranges, for standard round SCH40 steel poles. Ensure that the pole used matches the optimal range for the racking equipment provided.

Standard SOP mounts are as follows:

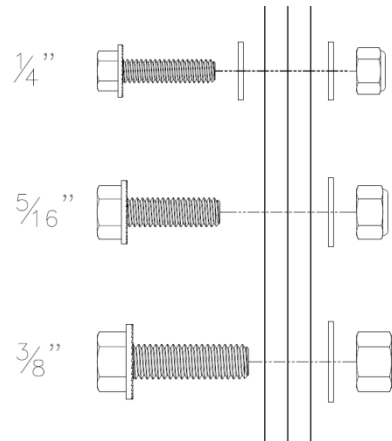
Part #	Rail Length (inches)	Pipe Size (Schd. 40)	Max Module Qty.
Large Format			
240002	60	2-6	1
240007	60	8-10	
240003	96	2-6	2
240008	96	8-10	

The mount consists of:

- 2x Module rails
- 4x L-Brackets
- 2x Tilt arms
- 2x Saddle Brackets
- 2x Universal Vee Brackets
- 4x SS Band clamps
- 1/4", 5/16" SS hardware kits as needed
- Optional U-bolt (available 2"-10")

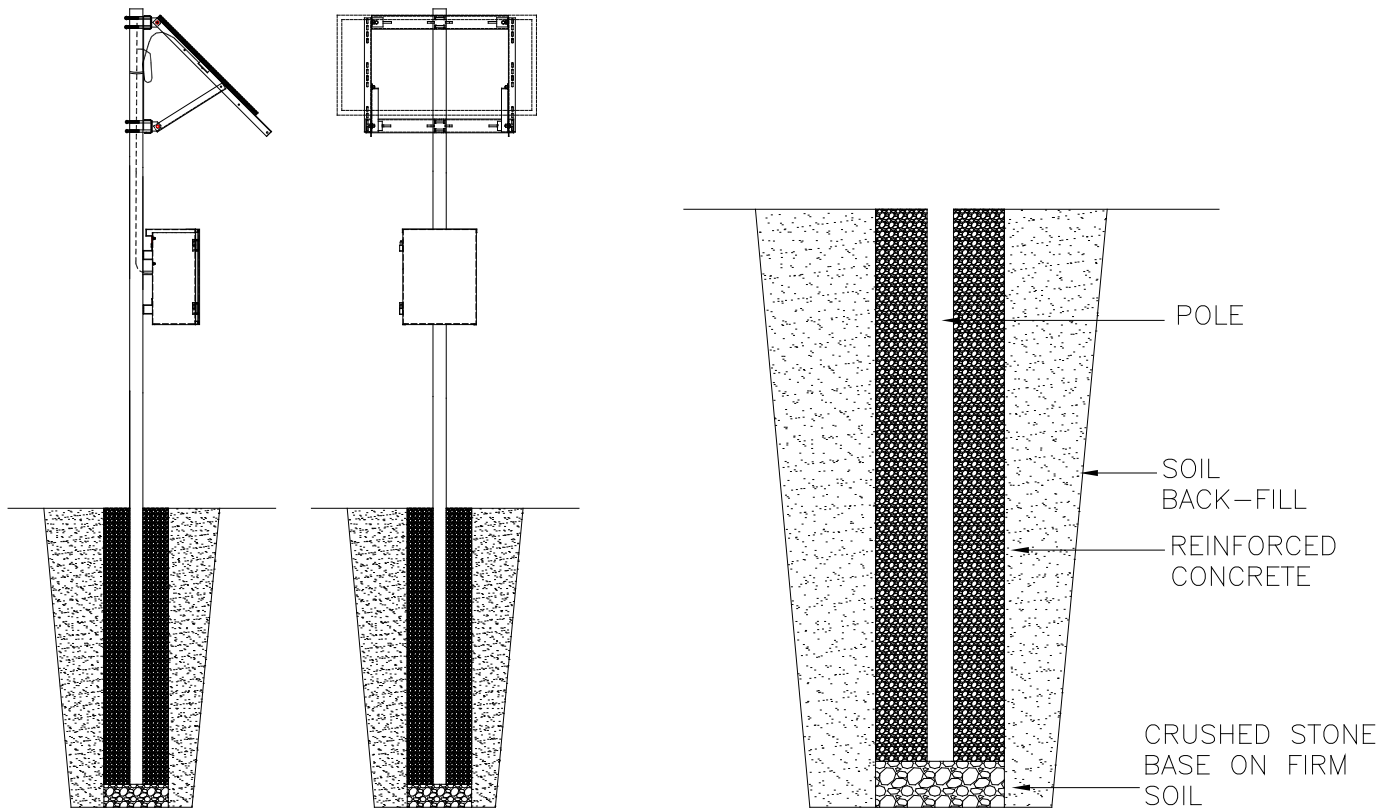
Hardware Note:

- When installing hardware, the washer is always placed on the same side as the nut.
- 1/4" hardware uses (2) washers, one on each side.
- Apply anti-seize to all hardware to prevent galling.



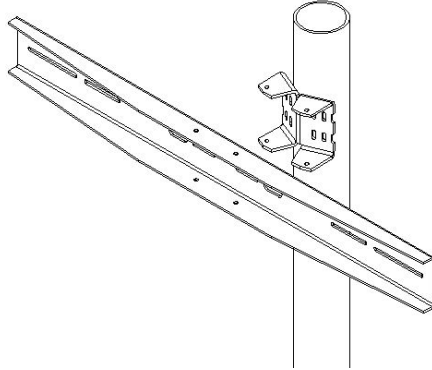
Pole Mount Site Preparation

- The pole used to support the PV array must be designed per the local soil conditions to meet the following minimum requirements:
 - Array area based at tilted angle
 - Typical sustained wind speed per the recommended local building code.
- The pole is to be seated against a firm crushed stone base, on firm compacted soil a minimum of 6" below the frost line encased in reinforced concrete per ASTM standards.
- The pole is to be level and plumb.
- Pole diameter and wall thickness sized to withstand array forces without damage.



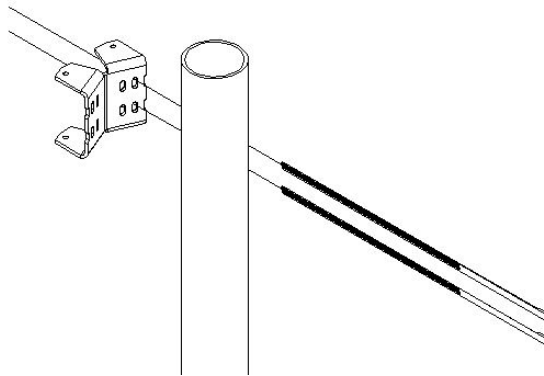
Mount Installation

1. (Best practice) Fasten the universal vee brackets to the pole using the provided band clamps first, then fasten the saddle brackets to the universal vee brackets using the provided 5/16" hardware. For 5/16" hardware, tighten using a 1/2" wrench to 10-12 Ft. lbs. torque. Apply anti-seize to all mounting hardware.

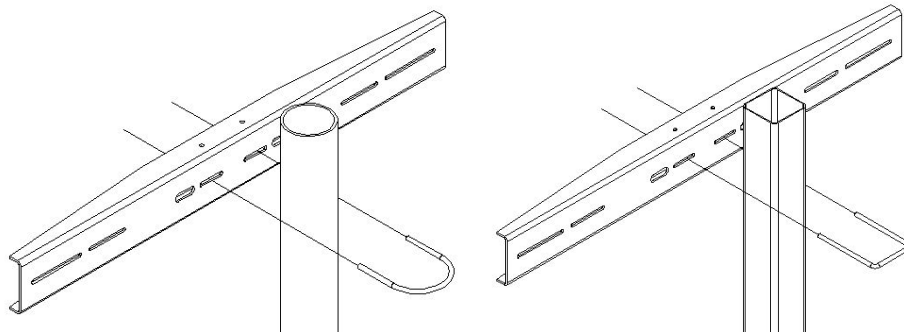


2. Fasten the upper universal vee bracket to the pole at the desired maximum height of the mount using two 1/2" stainless steel band clamps (provided). For high wind loads U-bolts (not provided) are required. Do not use the universal vee bracket when using U-bolts. The saddle or universal vee bracket can optionally be lag-bolted or through-bolted to the pole.

Band Clamp Mounting



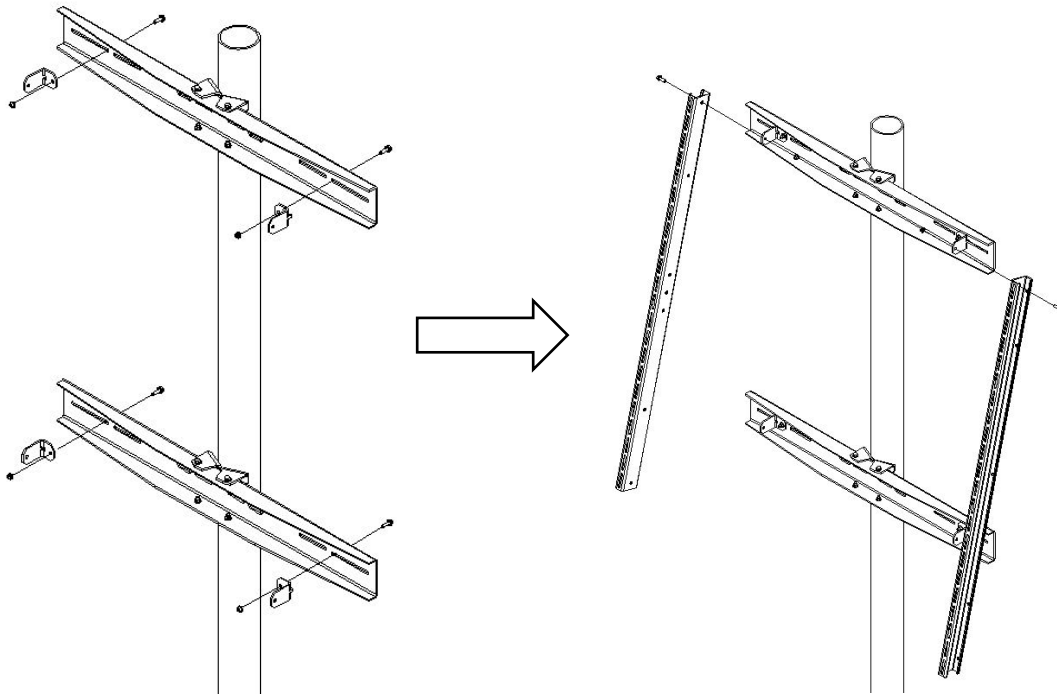
U-Bolt Mounting



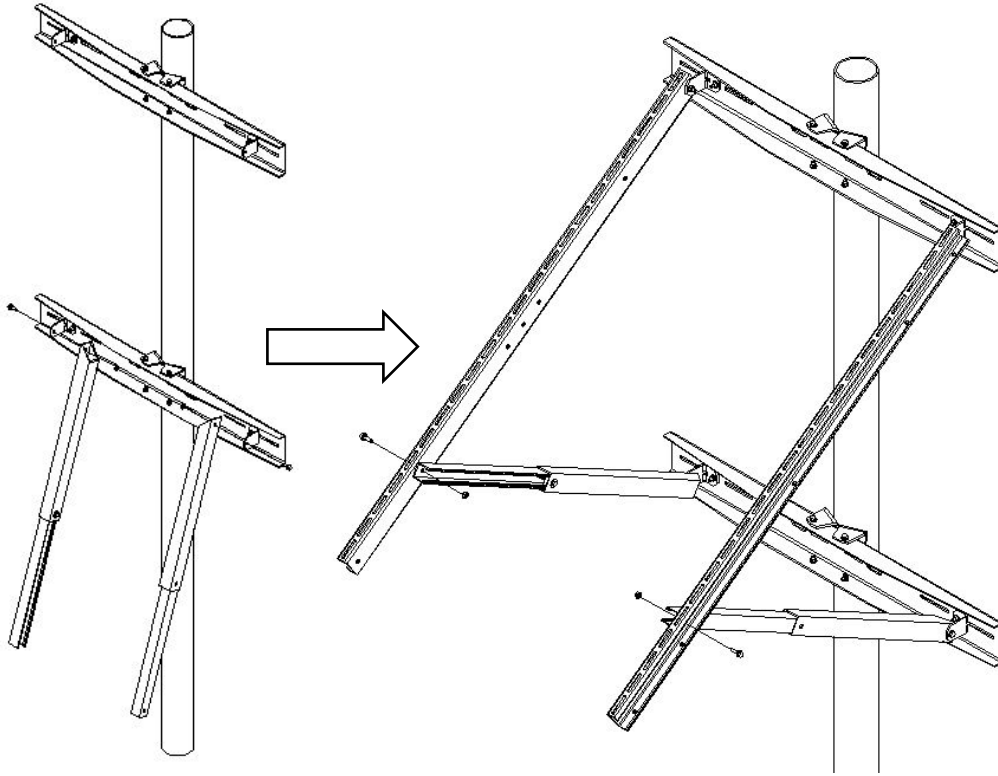
- When using band clamps, tighten to 4-5 Ft-lb torque. Wiggle saddle bracket to remove slack in band clamps and retighten. Repeat until clamps are snug.
- Loosely fasten the lower universal vee bracket to the pole. Use the below chart for rough spacing between the two saddles.

Approximate Saddle Spacing	
Rail Length	Spacing
27	2 ft
44	3-4 ft
60	4 ft
96	6-7 ft
110	7 ft

- Mount L-brackets to saddles using the 5/16" hardware provided. For 5/16" hardware tighten using 1/2" wrench to 10-12 ft. lbs. torque.
- Attach panel rails to upper saddle L-brackets using hardware provided.



- Attach tilt legs to lower saddle L-brackets. Adjust the tilt angle by adjusting the tilt arms and lower saddle to the desired angle of tilt then tighten the U-bolt/band clamp on the lower saddle. For 5/16" hardware tighten using 1/2" wrench to 10-12 ft. lbs. torque, for 3/8" hardware, tighten using 9/16" wrench to 18-20 ft. lbs. torque.



- Check alignment of all assembled parts and ensure all bolted connections are tight.

- Mount the solar modules to the rails using the 1/4" hardware provided.

Note: Flat washers should be installed on both sides for module bolts.

