Document # 310109



SunWize Power & Battery Mount Installation Guide Large Format Side of Pole





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Included Parts:





D) 2x Tilt Leg Strut



G) 4x Band Clamp



J) 5/16" Flange Bolt



M) ¹/₄" Flange Nut



B) 2x Saddle Bracket



E) 2x Easy Mount Bracket



H) 3/8" Spring Nut



K) ¹/₄" Flange Bolt



N) 1x Anti-Seize Packet



C) 2x Tilt Leg Tube



F) 4x Angle Bracket



I) 3/8" Flange Bolt



L) 5/16" Flange Nut



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Part #	Rail Length (inches)	Pipe Size Diameter (SCH 40)	Max Module Qty. (Large Format)	Max Module Qty. (Small Format)
240002	60.5	4-6	1	2
240007	60.5	8-10	1	2

60.5" Module Rail SOP Mount Specifications



Hardware Note:

- Apply anti-seize to all hardware to prevent galling
- 1 ft-lb = 12 in-lb = 1.36 Nm
- Use 5/16" hardware \rightarrow Mount assembly
 - Use 1/4" hardware \rightarrow Mounting module to rails
- Use 1/4" hardwarUse 3/8" bolts
- \rightarrow Tilt leg spring nuts
 - 3

Part #	Rail Length (inches)	Pipe Size Diameter (SCH 40)	Max Module Qty. (Large Format)	Max Module Qty. (Small Format)
240003	96.25	4-6	2	3
240008	96.25	8-10	2	3

96.25" Module Rail SOP Mount Specifications



Hardware Note:

- Apply anti-seize to all hardware to prevent galling
- 1 ft-lb = 12 in-lb = 1.36 Nm
- Use 5/16" hardware → Mount assembly
- Use 1/4" hardware → Mounting module to rails
- Use 3/8" bolts → Tilt leg spring nuts
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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.
- Ensure mount and module point due south in northern hemisphere, or due north in southern hemisphere.



Mount Installation

 Fasten the upper *Easy Mount Solar 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 easy mount bracket when using U-bolts. The saddle or *Easy Mount Solar Bracket* can optionally be lag-bolted or through-bolted to the pole.

Band Clamp Mounting:



2. Fasten the saddle bracket to the *Easy Mount Solar Bracket* using the provided 5/16"" hardware.



- 3. 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.
- 4. Attach lower *Easy Mount Solar Bracket* and saddle bracket using same method in steps one and two. **Do not fully tighten** *Easy Mount Solar Bracket*.



5. Adjust the lower *Easy Mount Solar Bracket* and saddle bracket to the approximate distance from the upper saddle bracket and fully tighten U-bolts or band clamps. Use the below chart for rough spacing between the two saddles.

Large Format Mount Angles vs Saddle Spacing (X)				
Degrees	60.5in Rail 96.25in Rail			
30	42.5in	69in		
45	51.5in	81.5in		
60 61in		94in		



6. Lay rails on module holes (but do NOT attach) to determine upper angle bracket spacing. Measure between the inside of the module rails. Attach angle brackets so that the module rails can be mounted with the correct spacing.



7. Attach panel rails to upper saddle L-brackets using 5/16" hardware provided.



8. Drop spring nut into tilt leg strut and rotate to lock into place. Slide strut and spring nut into tilt leg tube and adjust to desired length. See table for approximate extension length.

		Large Format Mount Angles vs Leg Extension (Z)		
	e	Degrees	60.5in Rail	96.25in Rail
		30	18in	34in
		45	11in	20in
// /		60	4in	4in
Tighten 3/8"		° °		
using 9/16" wrench to 18- 20 ft-lb torque.				- Co

9. Attach legs to lower saddle angle brackets.



10. Tighten all remaining bolted connections circled below.



- 11. Check alignment of all assembled parts and ensure all bolted connections are tight.
- 12. Mount the solar modules to the rails using the 1/4" hardware provided.



13. **(OPTIONAL)** If using the *High Wind Accessory Kit*, attach one bracket to the lower tilt leg and run the cable to the opposite corner of the saddle bracket. Tighten and lock the cable in place. Repeat with other bracket and cable on opposite side.

