TYCON Power Systems

- Pole Mount
- Wall Mount
- Roof Mount

Congratulations! on your purchase of the TPSM-30-80-SP solar mount for 30W to 80W solar panels or other panels 16" to 26" wide. Please take a moment to review this Qwik Install Guide before installation.

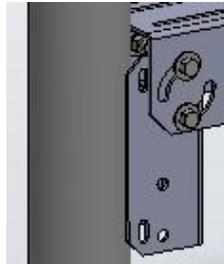**Recommended Tools:** M6 and M8 Wrenches. 5/16" socket for hose clamps

Qwik Install

STEP 0: The TPSM-30-80 can be used to mount any solar panel with width between 16 and 26inches (406-660mm). The mount can accommodate poles from 1.6" to 4" diameter (41-102mm). It can also be used for mounting to walls or roofs. The tilt adjustment is from 0° to 90° tilt.

STEP 1: Determine bracket mounting orientation. If pole diameter is less than 3", the bracket will be installed with flat side towards the pole. If pole diameter is 3" to 4", the bracket will be installed with open side toward the pole.
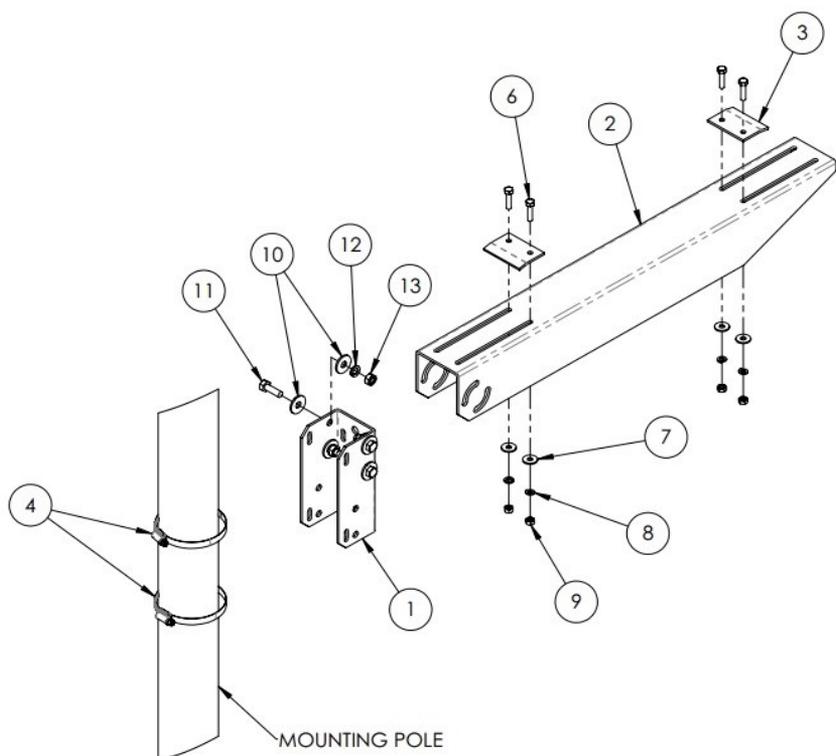
< 3" Diameter Pole

3-4" Diameter Pole

STEP 2: Mount the bracket to the arm using four 8mm bolts, nuts, washers and lock washers. Set the desired tilt angle and then tighten the 4 bolts to 144-in-lbs. Optimum tilt angle can be found using our tilt angle calculator: http://tyconsystems.com/index.php/resources/tools
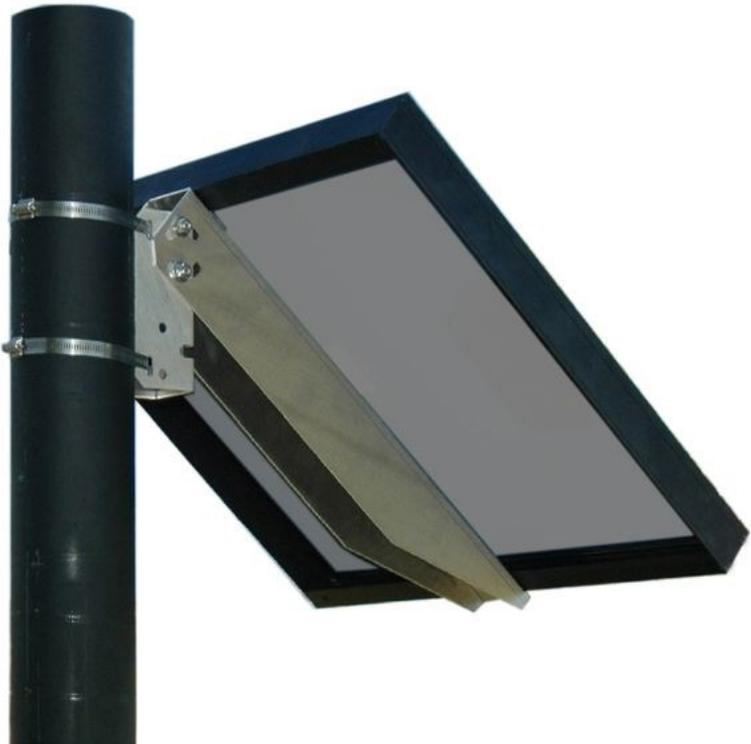

MOUNTING POLE

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	5200014-1	SINGLE ARM POLE MOUNT BRACKET	1
2	5200015-2	SINGLE ARM MOUNTING BRACKET	1
3	5200014-3	SOLAR PANEL CLAMP	2
4	5700018	WORM DRIVE CLAMP 2-6" DIA RANGE, STAINLESS	2
6	PER DESCRIPTION	M6 x 25mm HEX BOLT, STAINLESS	4
7	PER DESCRIPTION	M6 WASHER, STAINLESS	4
8	PER DESCRIPTION	M6 LOCK WASHER, STAINLESS	4
9	PER DESCRIPTION	M6 NUT, STAINLESS	4
10	PER DESCRIPTION	M8 WASHER, STAINLESS	8
11	PER DESCRIPTION	M8 x 25mm HEX BOLT, STAINLESS	4
12	PER DESCRIPTION	M8 LOCK WASHER, STAINLESS	4
13	PER DESCRIPTION	M8 NUT, STAINLESS	4

STEP 3: Attach the two solar panel clamps to the arm using four M6 bolts, washers, lock-washers and nuts. The clamping edges should be pointing away from each other. Don't tighten at this point, leave them loose.

STEP 4: Mount the bracket/arm assembly to the pole using two stainless steel hose clamps with the arm pointing South if in the Northern hemisphere or pointing North of in the Southern hemisphere. Tighten the hose clamp screws to at least 35-in-lbs.

STEP 5: Mount the solar panel to the arm by sliding the solar panel clamp over the inside edge of the panel and tightening the two bolts. Tighten to 84-in-lbs.

NOTE: The order of STEP 2-5 can be changed if it is easier for your situation. For instance some people may like to mount the panel to the arm first and then attach the bracket to the pole and then attach the solar panel/arm assembly to the bracket.

The mounts are designed for up to 110MPH wind speeds. Do not use in areas with higher wind speeds.

The mounts are not designed for highly corrosive environments like marine applications.

Limited Warranty

The TPSM-30-80-SP products are supplied with a limited 24 month warranty which covers material and workmanship defects. This warranty does not cover the following:

▫ Parts requiring replacement due to improper installation, misuse, poor site conditions, faulty power, etc.
▫ Lightning or weather damage.
▫ Physical damage to the external & internal parts.
▫ Products that have been altered, or defaced.
▫ Usage other than in accordance with instructions and the normal intended use.

Notes