

Pole Mount PM-1-x

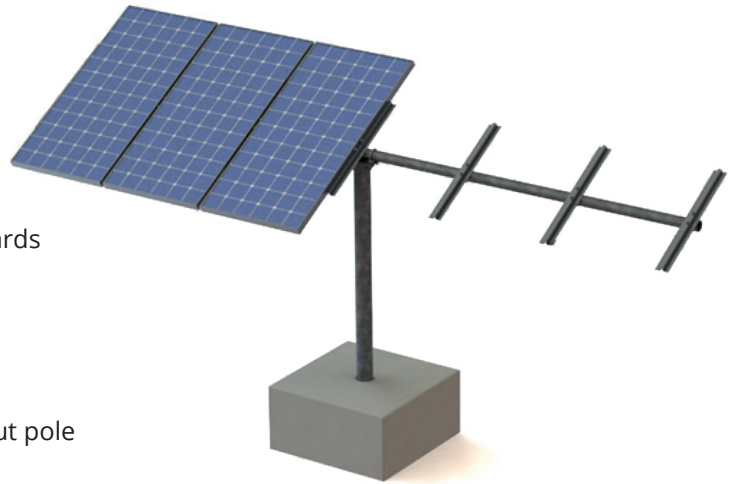
PV Module Mounting System Top of the Pole

CHARACTERISTICS

- Total PV Module* surface up to 8.5 m² / (91 ft²)
- Capacity of 1 to 6 framed PV Modules*
- Fast and simple installation by one installer
- Statics calculated to European and American standards
- High reliability and life expectancy

SUPPLY OPTIONS (cf. page 2)

- 6 kits Pole Mount PM-1-x mounting structure without pole or beam
- 4 beam sizes, to be ordered separately
- 2 pole sizes, to be ordered separately



TECHNICAL DATA

Mounting Structure

- Infinitely variable tilt angle between 0° and 55°
- Horizontal rail orientation for ease of mounting by one installer
- Total PV Module* surface up to 8.5 m² / (91 ft²)
- 1 to 6 framed PV Modules* are mountable with dimensions up to 1.6 to 0.8 m / 63 to 32", or 1 to 5 framed PV Modules* are mountable with dimensions up to 1.7 to 1.0 m / 76 to 40", or 1 to 4 framed PV Modules are mountable with dimensions up to 2 m to 1 m / 39 to 78", larger modules possible but with

reduced quantity and loads

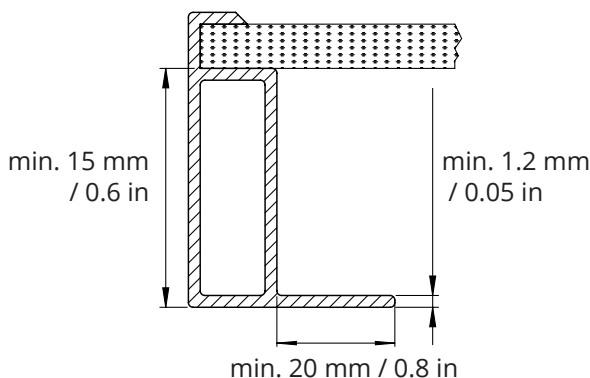
- Flexible PV Module* mounting sizes
- For PV Module frame specifications see the diagrams below
- Premium, corrosion-resistant material (stainless steel, aluminum, hot dipped galvanized steel)
- Suitable for high wind speeds up to 130 km/h / 81 mph, according to European and American standard

Foundation (not included)

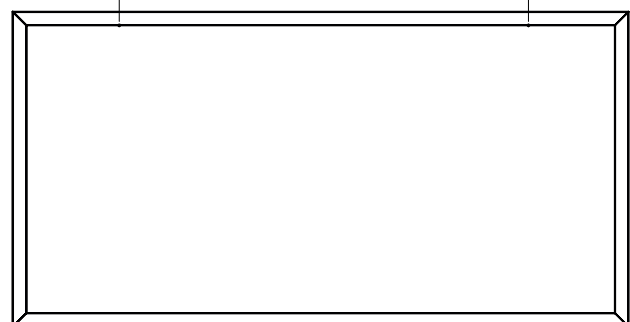
- Concrete foundation with steel reinforcement (min. dimensions provided in the table on page 2)

PV Module Frame Specifications

cross section of PV Module frame



maximum clamping area must be smaller than 850 mm / 34 in



*for framed PV Modules according to IEC 61215, UL 1703

Pole Mount System for installation of PV Modules:
1.6 x 0.8 m / 63 x 32" and 1.7 x 1.0 m / 76 x 40"

PM-1-x	PM-1-1	PM-1-2	PM-1-3	PM-1-4	PM-1-5	PM-1-6
Item No.	19-004090	19-004100	19-004110	19-004120	19-004130	19-004140
Qty. of PV Modules						
Size 1.6 x 0.8 m	1	2	3	4	5	6
Size 1.7 x 1.0 m	1	2	3	3	5	5

Foundation						
Height [mm]	500					
Height [inch]	19.7					
D x D [mm]	550 x 550	700 x 700	775 x 775	775 x 775	925 x 925	925 x 925
D x D [inch]	22 x 22	28 x 28	31 x 31	31 x 31	37 x 37	37 x 37

Qty. of PV Modules						
Size 2 x 1 m	1	1	3	3	4	4

Foundation						
Height [mm]	600					
Height [inch]	23.6					
D x D [mm]	800 x 800	800 x 800	1100 x 1100	1100 x 1100	1200 x 1200	1200 x 1200
D x D [inch]	31 x 31	31 x 31	43 x 43	43 x 43	47 x 47	47 x 47

Beam	70-1	70-2	70-3	70-3	70-4	70-4
Item No.	19-004170	19-004180	19-004190	19-004190	19-004200	19-004200
Cross section [mm]	70 x 2.9	70 x 2.9	70 x 2.9	70 x 2.9	70 x 5.0	70 x 5.0
Length A [mm]	1100	2100	3400	3400	5200	5200

Pole	70-1	70-1**	114-1	114-1	114-1	114-1
Item No.	19-004150	19-004150	19-004160	19-004160	19-004160	19-004160
Cross section B [mm]	70 x 2.9	70 x 2.9	114.3 x 3.6	114.3 x 3.6	114.3 x 3.6	114.3 x 3.6
Length [mm]	1900	1900	1900	1900	1900	1900

US Market	
Beam	US Standard pipe schedule 40
Cross section [inch]	2.5
Length [inch]	for the calculation of the beam length A see formula below
Pole	US Standard pipe schedule 40
Cross section [inch]	2.5
Length [inch]	75

** for PV Modules of 1.7 x 1.0 m: max. tilt 45°

Calculation of beam length A for local purchase

Metric in mm:

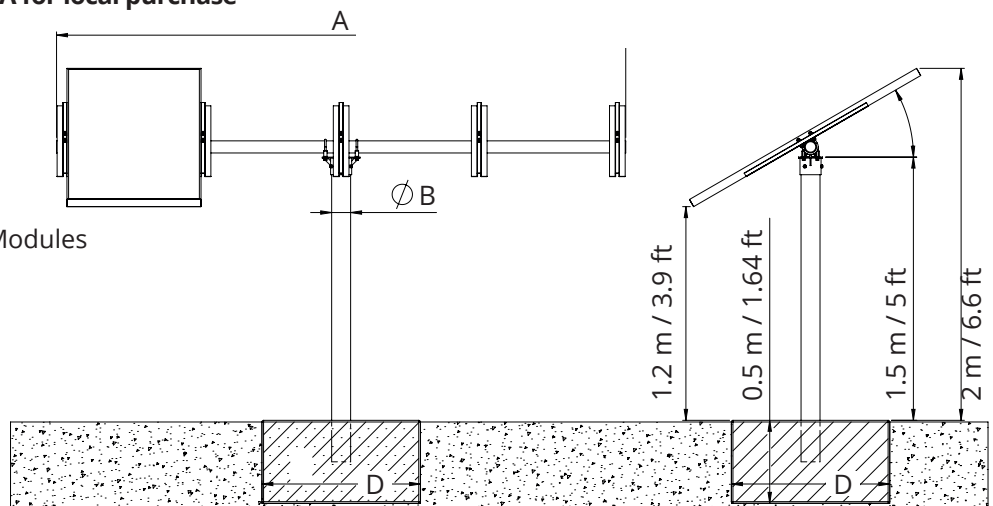
$$A = n * w + (n+1) * 30 \text{ mm}$$

Imperial in inch:

$$A = n * w + (n+1) * 1.2 \text{ inch}$$

n: Number of mounted PV Modules

w: Width of PV Module



Dimensions with installed PV Modules 1.6 x 0.8 m and 1.7 x 1.0 m