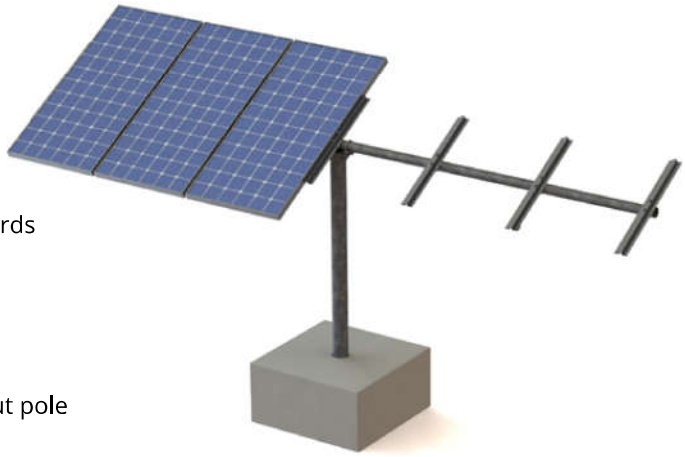
Pole Mount PM-1-x

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

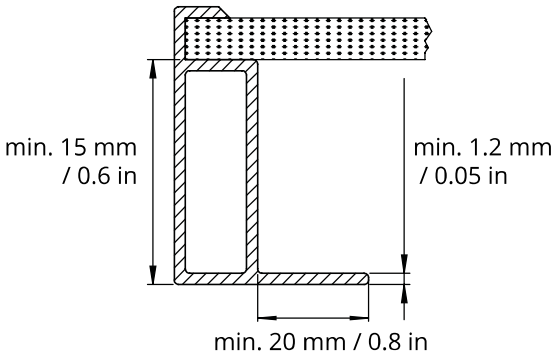
- Infinitely variable Tilt-angle between 0° and 55°
- Horizontal rail orientation for ease of mounting by one installer
- Total PV-Module* surface up to 8.5 m² /(91 ft²)
- 1 to 6 framed PV-Modules* are mountable with dimensions up to 1.6 to 0.8 m / 63 to 32” or 1 to 5 framed PV-Modules* are mountable with dimensions up to 1.7 to 1.0 m / 76 to 40”, larger modules possible but with reduced quantity and loads
- Flexible PV-Module* mounting sizes
- For PV-Module frame specifications see the dia-grams below
- Premium, corrosion-resistant material (stainless steel, Aluminum, hot dipped galvanized steel)
- Suitable for high wind speeds up to 130 km/h /80 mph, according to European and American standard

Foundation (not included)

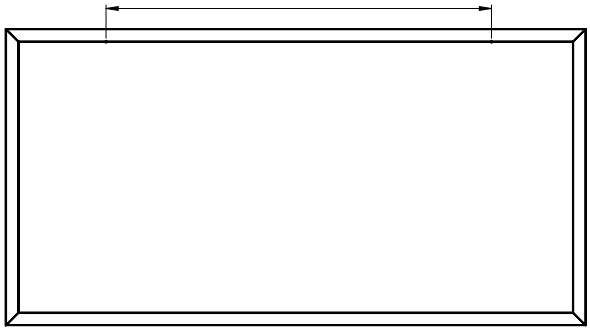
- Concrete foundation with steel reinforcement (min. dimensions provided in the table on page 2)

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

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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

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 [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		4			
Length [inch]	75					

Foundation						
Height [m]	0.5					
Height [ft]	1.64					
D x D [mm]	550 x 550	700 x 700	775 x 775	775 x775	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

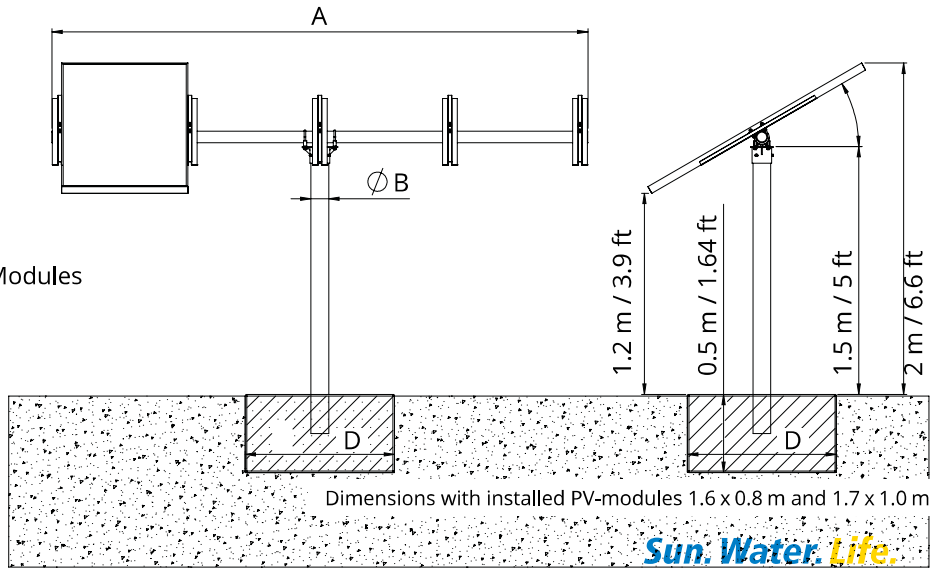
** for PV-Modules of 1.7 x 1.0 m: max. tilt 45°

Calculation of beam length A for local purchase

Metric in mm:
A = n * w + (n+1) * 30 mm

Imperial in inch:
A = n * w + (n+1) * 1.2 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

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