

General Specialties Recommendations for Pole Height and Dimension.

We can not guarantee a standard 1.67 safety factor if these recommendations are not observed. Since we can not assess each customer's individual site and conditions, a professional installer and the local building department should be consulted for the safest and most effective installation.

UPM Model	Post Size (Sch = Schedule, or thickness of pipe wall)	Array Surface Max Sq Footage	Max Pole Height Above Concrete Base W/ Array @ 45° Tilt	Clearance Between top of Concrete and Lowest Point on Array @ 45° Tilt	Max Pole Height Above Concrete Base W/ Array @ 60° Tilt	Clearance Between top of Concrete and Lowest Point on Array @ 60° Tilt	Max Pole Height Above Concrete Base W/ Array @ 90° Tilt	Clearance Between top of Concrete and Lowest Point on Array @ 90° Tilt
							See Footnote 2	See Footnote 2
UPM 3X Standard stock Tee socket size 4"	4" Sch 40 4½"OD 4" Sch 80 4½"OD	36 Sq Ft	10' 13' 6"	8' 11' 6"	8' 11'	5' 5" 8' 5"	7' 9' 6"	3' 10" 6' 4"
UPM 4X Standard stock Tee socket size 4"	4" Sch 40 4½"OD 4" Sch 80 4½"OD	46 Sq Ft	7' 6" 10'	4' 8" 7' 2"	6' 8'	2' 6" 4' 6"	5' 3" 6' 9"	1' 1" 2' 9"
UPM 6X Standard stock Tee socket size 5"	5" Sch 40 5 9/16"OD 5" Sch 80 5 9/16"OD	71 Sq Ft	8' 6" 11' 9"	6' 6" 9' 9"	7' 9' 6"	4' 5" 6' 11"	5' 9" 8' 3"	2' 7" 5' 1"
UPM 8X Standard stock Tee socket size 6"	6" Sch 40 6⅝" OD 6" Sch 80 6⅝" OD	87 Sq Ft	10' 14' 6"	7' 2" 11' 8"	8' 11' 9"	4' 6" 8' 3"	6' 9" 10' 3'	2' 7" 6' 1"
UPM 10X Standard stock Tee socket size 6"	6" Sch 40 6⅝" OD 6" Sch 80 6⅝" OD	110 Sq Ft	8' 11' 6"	4' 8" 8' 2"	6' 3" 9' 3"	1' 11" 4' 11"	See Footnote 1 8'	See Footnote 1 2' 8"

UPM 10XHD Standard stock Tee socket size 6", optional upgrade to 8" available	6" Sch 40 6 ⁵ / ₈ " OD	142 Sq Ft	6'	1' 9"	See Footnote 1	See Footnote 1	See Footnote 1	See Footnote 1
	6" Sch 80 6 ⁵ / ₈ " OD		8' 9"	4' 6"	7' 3"	1' 11"	See Footnote 1	See Footnote 1
8" Sch 40 8 ⁵ / ₈ " OD 8" Sch 80 8 ⁵ / ₈ " OD	142 Sq Ft	12' 6"	8' 3"	10'	4' 8"	8' 9"	3' 5"	
		18' 3"	14'	15'	9' 8"	12' 9"	7' 5"	
UPM 12X HD Standard stock Tee socket size 8", optional upgrade to 10" available	8" Sch 80 8 ⁵ / ₈ " OD no sch 40 for 8"	170 Sq Ft	15'	11' 8"	12' 3"	7' 11"	10' 6"	5' 2"
	10" Sch 40 10 ³ / ₄ "OD 10" Sch 80 10 ³ / ₄ "OD	170 Sq Ft	18' 6"	15' 2"	15'	10' 8"	12' 9"	7' 5"
			21'	17' 8"	21'	16' 8"	20'	14' 10"
UPM 15X Standard stock Tee socket size 8", optional upgrade to 10" available	8" Sch 80 8 ⁵ / ₈ " OD no sch 40 for 8"	212 Sq Ft	12'	7' 9"	9' 6"	4' 2"	8' 3"	1' 10"
	10" Sch 40 10 ³ / ₄ "OD 10" Sch 80 10 ³ / ₄ "OD	212 Sq Ft	14' 9"	10' 6"	11' 9"	6' 5"	10' 3"	3' 10"
			21'	16' 9"	18' 3"	12' 11"	16'	16'
UPM 18X Standard stock Tee socket size 8", optional upgrade to 10" available	8" Sch 80 8 ⁵ / ₈ " OD no sch 40 for 8"	265 Sq Ft	10'	4' 7"	8'	1' 7"	See Footnote 1	See Footnote 1
	10" Sch 40 10 ³ / ₄ "OD 10" Sch 80 10 ³ / ₄ "OD	265 Sq Ft	12' 3"	7'	9' 9"	3' 4"	See Footnote 1	See Footnote 1
			18' 9"	13' 6"	15' 3"	8' 10"	13'	5' 4"

Footnote 1: There is not adequate clearance for these arrays with this size pipe. Use heavier schedule pipe or larger pipe diameter

Footnote 2: For UPMs 12X HD, 15X and 18X, we do not recommend tilting past 60° without using the optional 90° Bracket Kit. This kit fastens the array to the pole below the tee top which is the safest and strongest possible attachment for the 90° vertical position. Most mounts do not need to be tilted past 70° unless they are in far north latitudes or in areas with extreme snow loads.

If you are installing a mount not listed here, please contact us for information on ground clearance and pole height.