

## 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	4" Sch 40 4½"OD	33 Sq Ft (3 Kyo 135)	10'	8'	8'	5' 5"	7'	3' 10"
	4" Sch 80 4½"OD		13' 6"	11' 6"	11'	8' 5"	9' 6"	6' 4"
UPM 4X	4" Sch 40 4½"OD	43.5 Sq Ft (4 Kyo 135)	7' 6"	4' 8"	6'	2' 6"	5' 3"	1' 1"
	4" Sch 80 4½"OD		10'	7' 2"	8'	4' 6"	6' 9"	2' 9"
UPM 6X	5" Sch 40 5⅝"OD	65 Sq Ft (6 Kyo 135)	8' 6"	6' 6"	7'	4' 5"	5' 9"	2' 7"
	5" Sch 80 5⅝"OD		11' 9"	9' 9"	9' 6"	6' 11"	8' 3"	5' 1"
UPM 8X	6" Sch 40 6⅝" OD	87 Sq Ft (8 Kyo 135)	10'	7' 2"	8'	4' 6"	6' 9"	2' 7"
	6" Sch 80 6⅝" OD		14' 6"	11' 8"	11' 9"	8' 3"	10' 3'	6' 1"
UPM 10X	6" Sch 40 6⅝" OD	109.5 Sq Ft ( 10 US 64)	8'	4' 8"	6' 3"	1' 11"	See Footnote 1	See Footnote 1
	6" Sch 80 6⅝" OD		11' 6"	8' 2"	9' 3"	4' 11"	8'	2' 8"
UPM 10X HD	6" Sch 40 6⅝" OD	140.5 Sq Ft (10 SW 175)	6'	1' 9"	See Footnote 1	See Footnote 1	See Footnote 1	See Footnote 1
	6" Sch 80 6⅝" OD		8' 9"	4' 6"	7' 3"	1' 11"	See Footnote 1	See Footnote 1
UPM 12X	6" Sch 40 6⅝" OD	130 Sq Ft	6' 6"	1' 5"	See Footnote 1	See Footnote 1	See Footnote 1	See Footnote 1
	6" Sch 80 6⅝" OD		9' 6"	5' 3"	7' 9"	2' 5"	See Footnote 1	See Footnote 1
	8" Sch 40 8⅝" OD	170 Sq Ft (12 SW 175)	13' 6"	9' 3'	11'	5' 8"	9' 3"	2' 10"
	8" Sch 80 8⅝" OD		19' 9"	15' 6"	16'	10' 8"	13' 9"	7' 4"

UPM 12X HD	8" Sch 80 8 <sup>5</sup> / <sub>8</sub> " OD	170 Sq Ft (12 SW 175)	15'	11' 8"	12' 3"	7' 11"	10' 6"	5' 2"
	10" Sch 40 10 <sup>3</sup> / <sub>4</sub> " OD 10" Sch 80 10 <sup>3</sup> / <sub>4</sub> " OD	170 Sq Ft	18' 6" 21'	15' 2" 17' 8"	15' 21'	10' 8" 16' 8"	12' 9" 20'	7' 5" 14' 10"
UPM 15X	8" Sch 80 8 <sup>5</sup> / <sub>8</sub> " OD	212 Sq Ft	12'	7' 9"	9' 6"	4' 2"	8' 3"	1' 10"
	10" Sch 40 10 <sup>3</sup> / <sub>4</sub> " OD 10" Sch 80 10 <sup>3</sup> / <sub>4</sub> " OD	212 Sq Ft (15 SW 175)	14' 9" 21'	10' 6" 16' 9"	11' 9" 18' 3"	6' 5" 12' 11"	10' 3" 16'	3' 10" 16'
UPM 18X	8" Sch 80 8 <sup>5</sup> / <sub>8</sub> " OD	255 Sq Ft (18 SW 175)	10'	4' 7"	8'	1' 7"	See Footnote 1	See Footnote 1
	10" Sch 40 10 <sup>3</sup> / <sub>4</sub> " OD 10" Sch 80 10 <sup>3</sup> / <sub>4</sub> " OD	255 Sq Ft	12' 3" 18' 9"	7' 13' 6"	9' 9" 15' 3"	3' 4" 8' 10"	See Footnote 1 13'	See Footnote 1 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.