General Specialties Recommendations for Pole Height and Dimension for Side of Pole Mounts R-13

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.

SOP Model and Panel Size (Letters in " " refer to panel size. See Capacity Chart)	**Post Size** (Sch = Schedule, or thickness of pipe wall)	**Max Pole Height Above Concrete Base W/ Array @ 45° Tilt**	**Approximate Clearance Between top of Concrete and Lowest Point on Array @ 45° Tilt**	**Max Pole Height Above Concrete Base W/ Array @ 60° Tilt**	**Approximate Clearance Between top of Concrete and Lowest Point on Array @ 60° Tilt**	**Max Pole Height Above Concrete Base W/ Array @ 90° Tilt**	**Approximate Clearance Between top of Concrete and Lowest Point on Array @ 90° Tilt**
SOP- K "A" or "B" for 1 module size "A" and "B" up to 14.10 sq ft. max	standard post size: 3" Sch 40 3" Sch 80 special order: 4" Sch 40 4" Sch 80	 12' 6" 16' 6" 20' 0" 20' 0"	 10' 2" 14' 2" 17' 8" 17' 8"	 11' 13' 6" 20' 0" 20' 0"	 8' 4" 10' 10" 17' 4" 17' 4"	 9' 6" 12' 0" 20' 0" 20' 0"	 6' 6" 9' 0" 17' 0" 17' 0"
SOP-X"C" or "D for 1 module size "C" and "D" up to 22 sq ft. max	standard post size: 3" Sch 40 3" Sch 80 special order: 4" Sch 40 4" Sch 80	 8' 0" 11' 0" 16' 0" 20' 0"	 5' 2" 8' 2" 13' 2" 17' 2"	 6' 6" 8' 6" 12' 6" 17'	 3' 4" 5' 4" 9' 4" 13' 10"	 5' 9" 7' 3" 10' 9" 14' 6"	 1' 3" 3' 7" 7' 1" 10' 10"
SOP-S "A" for 2 modules size "A" Only up to 22 sq ft. max	standard post size: 3" Sch 40 3" Sch 80 special order: 4" Sch 40 4" Sch 80	 8' 10' 6" 15' 6" 20'	 4' 6" 7' 0" 12' 0" 16' 6"	 6' 6" 8' 6" 12' 6" 16' 6"	 2' 3" 4' 3" 8' 3" 12' 3"	 5' 6" 7' 3" 10' 6" 14' 6"	 0' 8" 2' 5" 5' 8" 9' 8"
SOP-Y "B" for 2 modules size "B" ONLY up to 28.2 sq ft. max	standard post size: 4" Sch 40 4" Sch 80	 11' 6" 15' 6"	 7' 10" 11' 10"	 9' 6" 13' 0"	 4' 3" 8' 9"	 8'3 " 11' 0"	 3' 5" 6' 2"
SOP-Y "C" for 2 modules size "C" ONLY up to 36 sq ft. max	standard post size: 4" Sch 40 4" Sch 80	 9' 3" 12' 6"	 4' 3" 7' 6"	 7' 6" 10' 0"	 1' 8" 4' 2"	 Footnote 1 8' 6"	 Footnote 1 1' 10"

SOP-Y "D" for 2 modules size "D" ONLY up to 42 sq ft. max	standard post size: 4” Sch 40 4” Sch 80 Special Order: 5” Sch 40 5” Sch 80 6” Sch 40	 5' 9" 10' 6" 13' 9" 18' 9" 20'	 0' 9" 5' 6" 8' 9" 13 9" 15'	 Footnote 1 8' 6" 11' 0" 15' 0" 17' 6"	 Footnote 1 2' 8" 5' 2" 9' 2" 11' 8"	 Footnote 1 7' 4" 9' 6" 13' 3" 15'	 Footnote 1 0' 8" 1' 10" 6' 7" 8' 4"

Dimension of Post Hole for Standard SOP Installation

SOP Model	Pipe Size	Depth of Hole	Width of Square Hole	Diameter of Round Hole
SOP-K	3" 4"	60" 72"	12" 12'	14" 14"
SOP- X	3" 4"	48" 72"	12" 12'	14" 14"
SOP- S	3" 4"	48" 72"	12" 12'	16" 16"
SOP-Y For 2 "B" or "C" size modules	4"	60"	16"	20"
SOP-Y For 2 "D" size modules	4" 5" 6"	60" 72" 72"	16" 16" 18"	20" 20" 24"

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

WARNING:
Your building department may require the foundation for a PV array to be designed by a structural engineer licensed in the state where the PV array is to be erected. This is required because failure of a Post Mount foundation may be a threat to the safety of people or property within the array's proximity. At a minimum, failure will result in costly damage to the PV modules. The specs for a foundation described here, is suitable for most soil types, but no warranty of it's suitability for your soil or wind conditions is offered or implied.