

Dimension of Post Hole for Standard Installation
(Non Flat Base Foundation)

UPM Model	PV Array Surface Area	Depth of Hole	Width of Square Hole
3X	33 Sq Ft	48"	16"
4X	44 Sq Ft	50"	18"
6X	65 Sq Ft	54"	24"
8X	87 Sq Ft	58"	32"
10X	110 Sq Ft	68"	36"
10X HD	140 Sq Ft	80"	40"
12X	130 Sq Ft	75"	38"
12X HD	170 Sq Ft	85"	42"
15X	212 Sq Ft	90"	46"
18X	255 Sq Ft	96"	46"

Again, 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 PV array foundation may be a threat to the safety of nearby people. At a minimum, failure will result in costly damage to the PV modules. The foundation described here is suitable for most soil types, but no warranty of its suitability for your soil or wind conditions is offered or implied.

If you are unable to dig holes of these dimensions because you encounter bed rock or if you have very loamy or loose sandy soil, (get the recommendation of a soil engineer or building department), then refer to the accompanying Chart for Flat Base Foundation for alternative foundation construction dimensions.

For type and size of pole to install in concrete foundation, refer to General Specialties Pole Height and Dimension chart.