

## SUNFIND Light Duty 1.5 Pole Mount System

Sunfind Solar Products developed our line of SUNFIND Off Grid Light Duty Systems as a low cost solution for light duty applications where initial cost is the primary concern. These systems still utilize components from leading manufacturers but in order to offer a low cost option, the inverter system and battery bank is a basic set-up, offering reliable power without the latest technology and high efficiency currently available. We have carefully designed and integrated all components to ensure a reliable, safe and code compliant off grid PV system .

### Solar Array

The system comes with 6 Kyocera 245W PV modules. Kyocera's advanced cell processing technology and automated production facilities produce a highly efficient multicrystal photovoltaic modules. The conversion efficiency of the Kyocera solar cell is over 16% with 20-25 year output warranties.

KD 245GX

Weight	46.3 lbs
Dimensions:	65.4" x 39.0" x 1.8"
Power (rated):	245W
Peak Current	8.23A
Voltage:	MPPT Only



### PV Array Mount:

See Next Page

### Inverter:

Sunfind Solar Products provides a complete pre-assembled and pre-wired Inverter system that is programmed and tested before shipment. Each Magnum E-Panel System Includes:

- 4.4kW Pure Sine Magnum Inverter
- White steel E-Panel
- Magnum Battery Monitoring Kit
- Midnite Classic: 150VDC, 96A MPPT Controller
- Lightning Arrestors
- System Assembly, Programming, Testing and Crating



### Battery Bank:

#### Option 1: Lead Acid Batteries: MAINTENANCE ITEM

SUNFIND LD Systems come with 8 PS2200 (225AH, 6V) wet, lead acid batteries. This quality battery bank is going to provide reliable, long term power for years to come. Average life: 4-5 years.



#### Option 2: AGM Batteries: FULLY SEALED, MAINTENANCE FREE!

Sealed, Maintenance Free AGM: 250AH @ 20HR. Any SUNFIND OFF GRID system can be equipped with AGM technology. These batteries require less PV or generator time to charge and require no equalization or maintenance. Best solution. Average life: 4-5 years.



## Array Mount Options

Array mounting is just as important as any other part of a PV System. Many times, the array is sacrificed in order to save some initial expense. However, this short term expense can easily be offset by decreased energy production. It is important that a quality mount be utilized to maximize the energy production of the PV System, especially when living off grid when every watt counts.



Sunfind Solar Products includes PLP Mounts with many of our PV Systems. As the industry continues to rapidly evolve, it is important to ensure all the system components interact together as effectively as possible. With the rapid expansion of large wattage modules, it has been a challenge to offer proper mounting systems to match the evolution of PV modules. With the addition of PLP Mounts we are able to provide excellent mounting solutions that do not require any additional modifications to the mount or PV modules.

## Pole Mounts: The SUNFIND Light Duty 1.5 PM includes 1 PLP Pole Mount

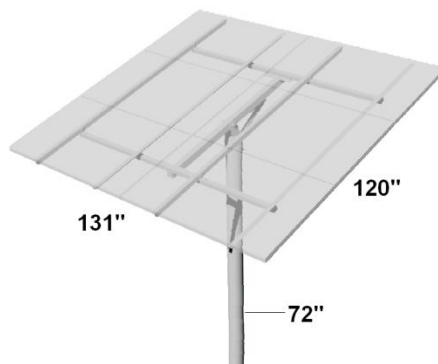
Pole mounts are generally the best solution for off grid applications.



### BENEFITS

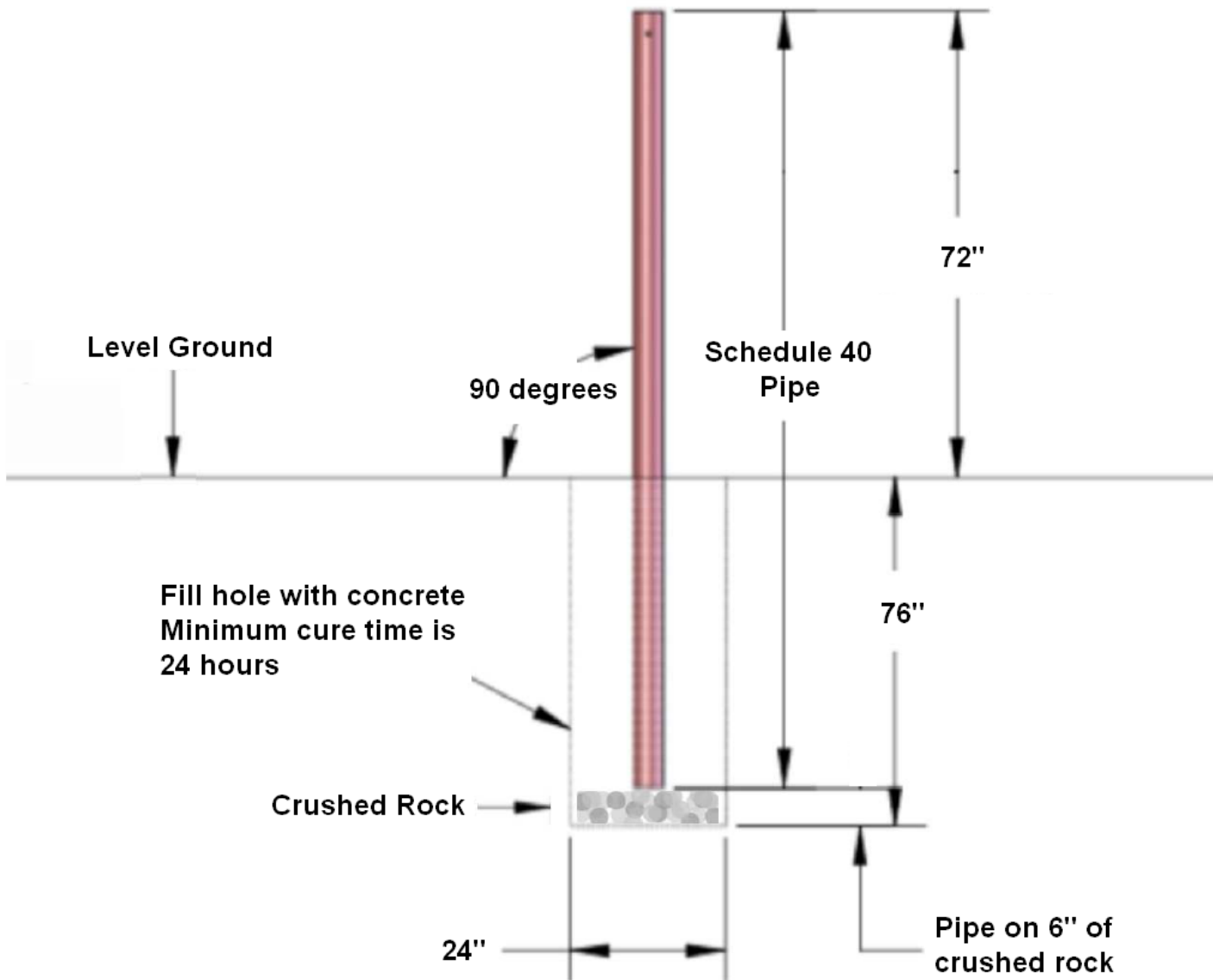
- 108 Square Feet: Low foot print only requires a single foundation
- Easy seasonal elevation adjustments
- Angle adjustments from 15-65 degrees
- Certified for 150 km/hr (90 mph) winds
- Easy to assemble
- 6" Schedule 40 pipe

Standard mounts for 6 modules



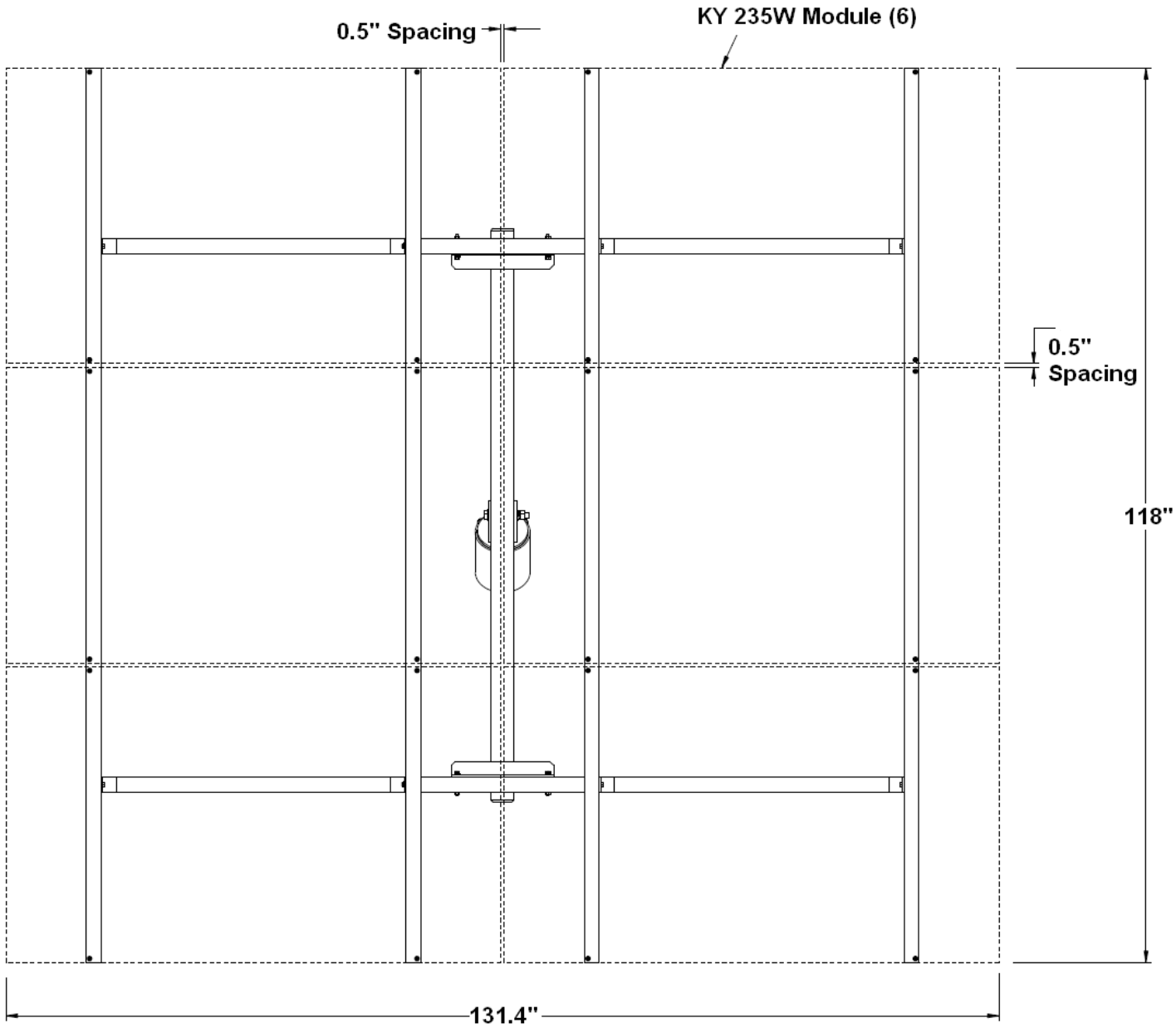
TPM 6

### Top of Pole Mount Foundation Guideline



Typically, the most effective way to dig the foundation hole is to use a Hydrovac Unit. This process uses high pressure water to cut the hole and vacuum to remove the debris. The process is accurate and can produce virtually any hole required.

NOTE: The above diagram is for reference only. Each mount, depending on number of modules, as well as soil type, will have specific foundation requirements. Once the proper mounts is determined, the mount specific manual(s) will be provided.



**NOTE: 6" Schedule 40 Steel Pipe is required for this mount**

### **SUNFIND LD 1.5PM**

- 1.5 kW solar array with pole mounting system
- 4.4 kW Magnum E-Panel: 120/240, Midnite Classic 150, AC/DC Breakers, Remote, RTS, prewired with CSA certification
- 225 AH (48VDC) battery bank with battery cables and hardware
- Turn-key system makes installation a breeze!
- Ideal system for a average sized cottage used from April to May, with 2-3 occupants, and utilizing common AC appliances. This system will also work for a small, full time home with a single, energy conscious individual. Electric, Energy Star refrigeration is ideal.

### **Performance and Cost Calculations – NOTE: These calculations are derived @ 52 degrees North**

- Yearly Energy Production: 1,548 kWh / Monthly average: 129 kWh
- Average Daily Consumption: 3.6 kWh
- Peak Daily Summer Production: 6.21 kWh / Trough Daily Winter Production: 1.7 kWh
- Estimated Yearly Generator Run Time: 367 hrs / Expected Generator Life: 8 years
- Total Monthly System Cost over 19 years: \$127
- Solar PV Costs over 19 years: \$49
- Generator Monthly Cost @ 367 hrs per year: \$78

For a full system analysis based on location, please contact a SUNFIND Sales Representative.

The first step to successful off grid living is education. Not all PV systems are equal and overall system performance, cost and reliability will be determined by how successful all these components are integrated together. Our systems have undergone rigorous design and testing to ensure all the components, from the PV modules to the batteries, and the dozens of components in between, will integrate and operate as a reliable, efficient PV System. Sunfind Solar Products prides ourselves on providing industry leading PV systems, backed by our expertise, and supported by our goal of exceptional customer support.

For additional education material, product information and/or pricing, please contact a SUNFIND solar professional today.

#### Corporate Address:

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Monday-Thursday  
7:30am - 4:00pm MST

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Location: Please stop by and visit us.