Type of Water Source (Check one):   _____ Stream, Lake or Pond   _____ Cistern or Dug Well   _____ Drilled/Deep Well
Other ___________________________   Season of operation (months) ________________________________

Depth to Water: ______ Ft. (Be sure to account for variations)   Distance of Float Switch Cable _______________________

Estimated Well Capacity: _____ GPM   Amount of Water Required: _____ GPD (Winter) _____ GPD (Spring)

Well Inside Diameter (If applicable) ______ in.   _____ GPD (Summer) _____ GPD (Fall)

Type of Application (Check one): _____ Domestic Water _____ Livestock _____ Irrigation   Other ___________________________

Vertical Lift Required From Water Surface to Outlet: ____ ft.   Type of Storage: _____ Above Ground   Other ___________________________

Geographical Location of System ________________________________   Temperature: _____ ºF Min.   _____ ºF Max

Elevation Above Sea Level: _____ Ft.   Distance from Solar Array to Pump: _____ ft.

Options: (please check if you would like one of the following) Float Switch ______   Generator Backup_____

### General Solar Pumping Information

#### Flow Rates

**GPD** - Gallons per Day (To estimate GPD, multiply GPH by peak sun hours for location)

**GPH** - Gallons per Hour (To estimate GPH, multiply GPM by 60 min./hour)

**GPM** - Gallons per Minute

#### Pump Performance Vs. Solar Array Output

As voltage varies, flow rate will vary proportionally

Average stays nearly constant

Watts = Volts x Amps

#### Conversion Factors

Feet of Lift to PSIG - Divide Feet by 2.31

US Gallons to Liters - Multiply Gallons by 3.785

Feet to Meters - Divide Feet by 3.28

#### Consumption Estimates

People–10-100 GPD per person for all purposes

Large Livestock (horses, cattle) - 10 GPD per animal

Dairy Cattle - 35 GPD per animal

Small Livestock (sheep, hogs, etc.) - 2-4 GPD per animal

100 Chickens - 4 GPD

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**Email completed form to power@sunwizepower.com**

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**Headquarters**

1337 Main Street
Philomath, OR 97370
(866) 827-6527
info@sunwizepower.com