N1000 SINGLE POLE H.V. MANUAL

Please READ all instructions before beginning installation.

Due to product updates & availability, there may be slight variations in this manual & your particular system.

It is recommended to test the water from the well for purity, unusual PH level and/or acidic levels before use. Check with your local health department for test procedures.

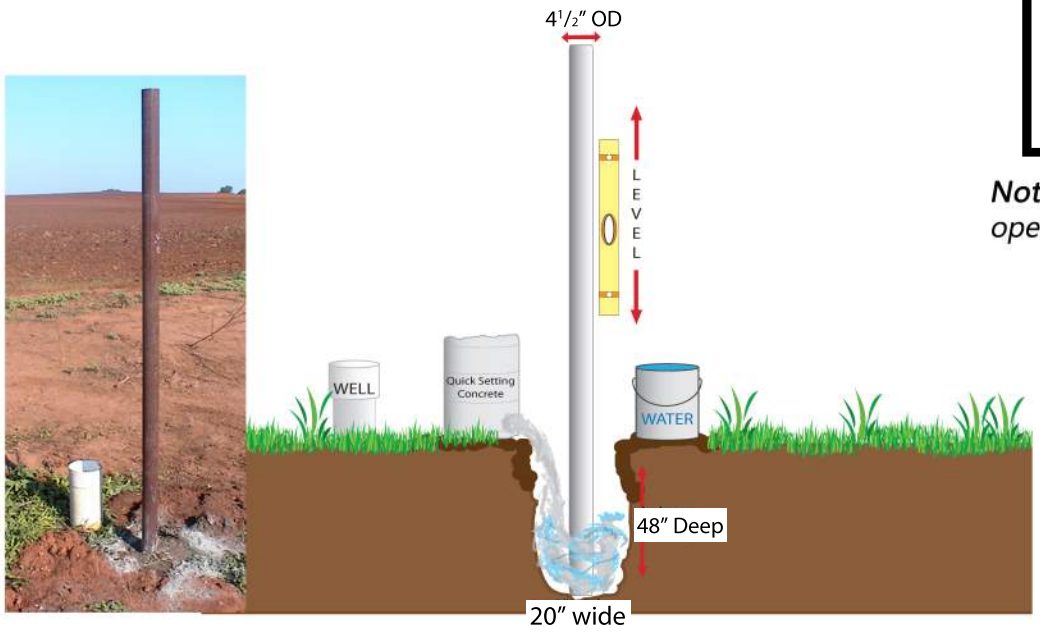
SETTING SOLAR ARRAY POLE:

FIRST, Measure the diameter of the well casing to insure you have the proper size well seal. The helical pump requires a minimum 5" well casing diameter.

SECOND, Dig a hole using posthole diggers or shovel approximately 48 inches deep and 20 inches in diameter near the well for 4 1/2" OD x 10 ft pole. This pipe will hold the solar modules. If there is an existing windmill, dig the hole approximately 10 ft. south of it.
This will insure that no shadows from the windmill will fall across the face of the module. Also, observe the South, West, and East (North of Equator references) of the well to make sure there are no shadows from trees, etc. to cause a power loss. The solar array can be placed away from the well if need be. Use larger gauge wire for longer distances.

***Note:** Direct Solar systems may not operate under certain low light conditions.*

THIRD, Set the pole using quick setting concrete mixed with water to fill in the hole around the pole. Make sure the pole is plumb using a level. View illustration below.



We suggest you use a licensed electrician when installing or assembling the system as you are dealing with HIGH VOLTAGE. API is not liable for damages or harm done to persons or equipment.

Please refer to our website:
www.solarpumps.com
for typical VIDEO installation and more information.

ADDITIONAL ITEMS needed to complete installation:

Concrete: Quikrete or fast setting 3-4 bags
Pole: 4 1/2" OD pipe x 10'+ Height with top end smooth
(to hold solar array)
Water: 1 gallon for cement
Electrical Tape
Down hole pipe: 1"+ PVC or Poly Pipe
Well Seal to fit diameter of well casing & fittings to match
Pipe to storage tank: 1"+ PVC or Steel
Fittings: 1"+ Adapter, etc. to match pipe (Male or Female depending on pump)
PVC Primer and Glue (when using PVC pipe)
Heat source to heat shrink connectors.
Stainless pipe clamps

TOOLS:

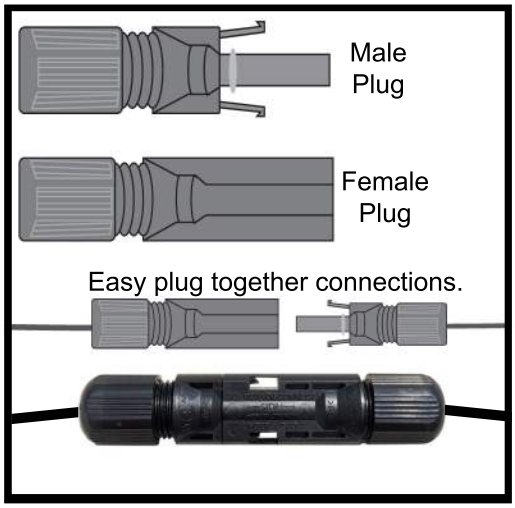
Posthole Diggers
Pliers, Knife, Level
Terminal Crimper
Small nail or drill to make a freeze hole
Ratchet with 3/8", 7/16", 1/2", 9/16", 1 1/8" sockets
5/16" Wrench 7/16" Wrench
9/16" Wrench 1 1/8" Wrench

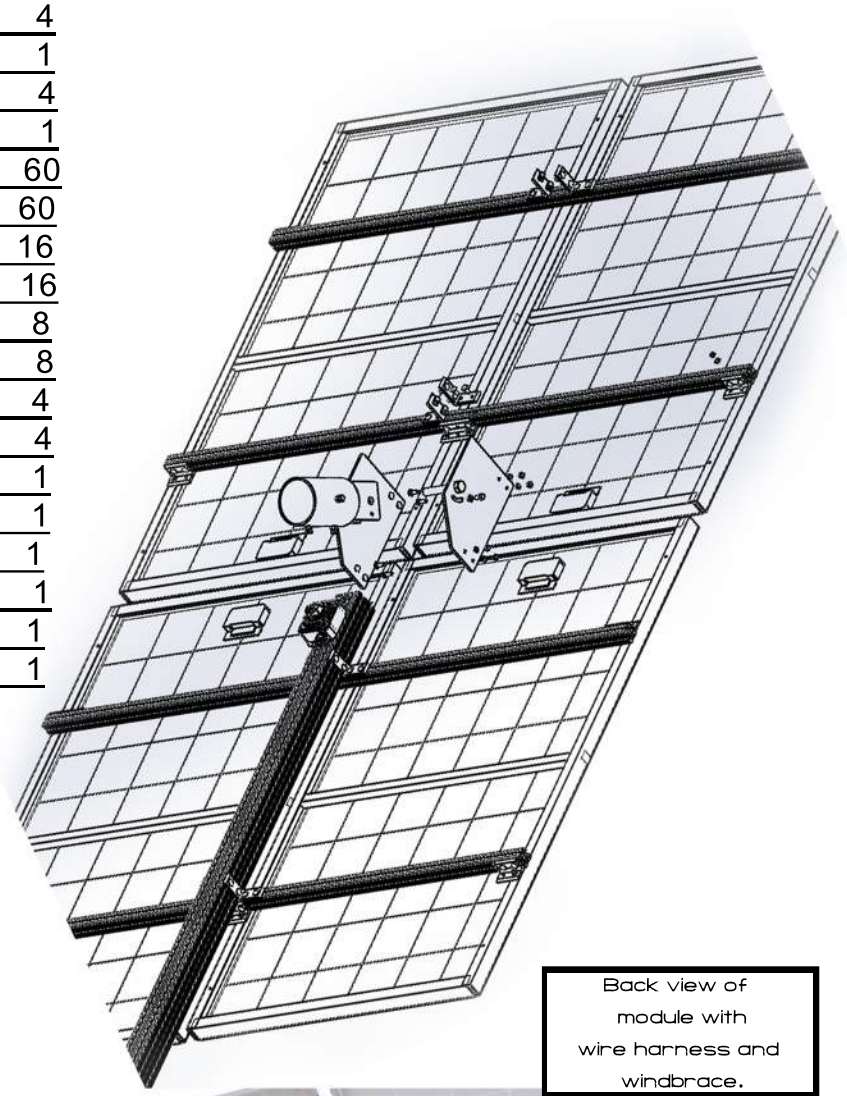
OPTIONAL but very important:
Ground Rod
is available to purchase in our store.

1000W MOUNT ASSEMBLY

4 Panel 1000W Part List:	Qty.
250 Watt Panels	4
K1000 99" Main Beam	1
K1000 80" Cross Beams	4
Lg. Pipe Mount w/ Mounting Hardware	1
5/16”-18 UNC Stainless Button Head Bolts	60
5/16”-18 UNC Stainless T-Slot Nuts	60
1/4”-20 UNC Hex Bolt	16
1/4”-20 UNC Hex Nut	16
1½” x 1½“ 4 Hole Brackets	8
3” x 3” 4 Hole Brackets	8
1½” x 1½” 6 Hole Brackets	4
Switch Box Nuts	4
Wind Brace Kit	1
Blue MC4 High Volt Tool	1
3/16 Allen Wrench	1
High Power On/Off Switch Box	1
5’ Male Stub	1
5’ Female Stub	1

UNC= Unified National Coarse





Back view of module with wire harness and windbrace.

1. We suggest you use a licensed electrician when installing or assembling the system as you are dealing with HIGH VOLTAGE. API is not liable for damages or harm done to persons or equipment.

2. Mount the On/Off Switch lower on the panels to have easier access.**WARNING: Turn High Volt system switch to OFF when assembling.**

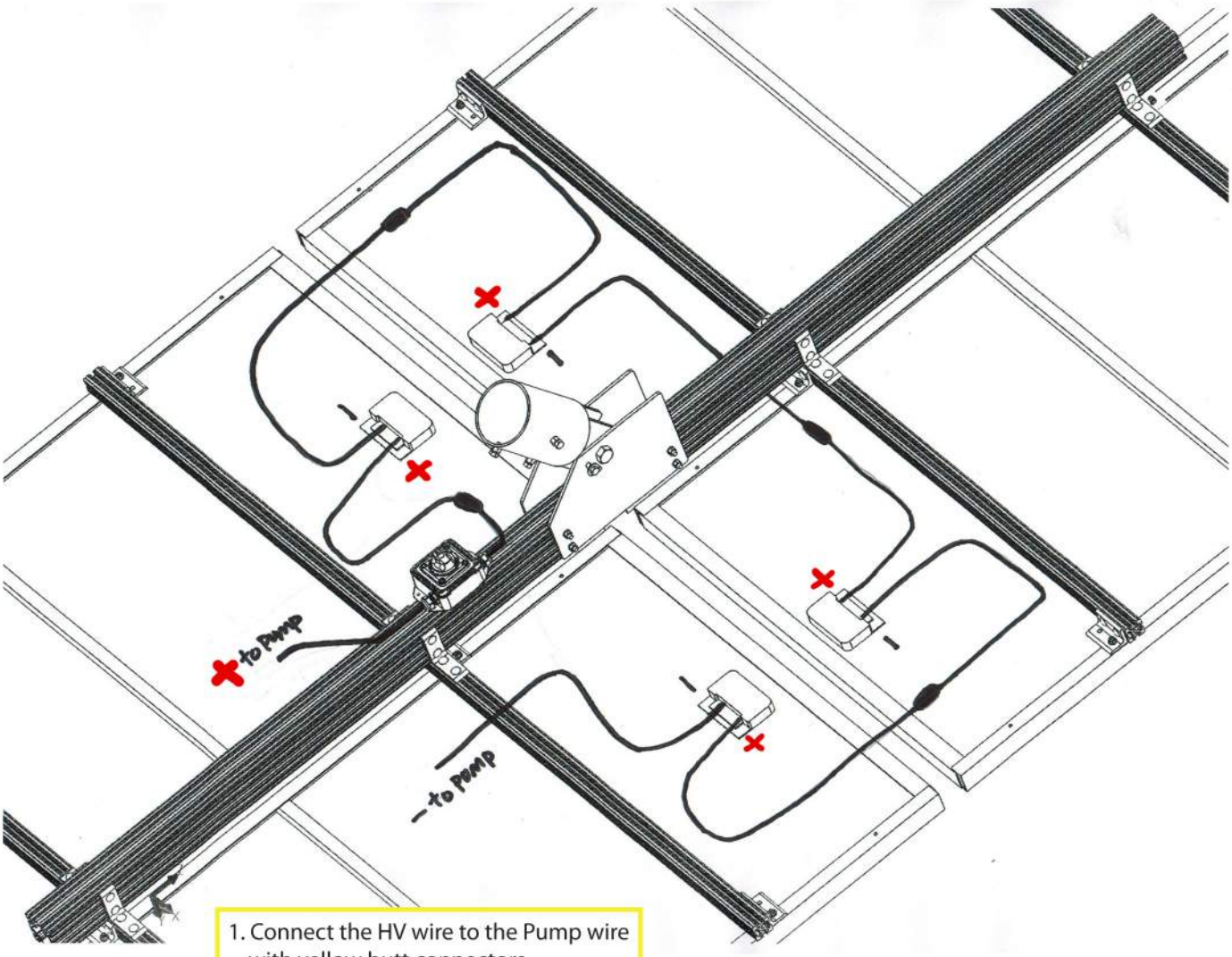
3. Connectors simply plug together. Please do not use excessive force, as this may damage connector.

4. The Kits come prewired so no need to open the junction box on the back of module.

5. We highly recommend tying a nylon safety rope to the pump, in case of pipe failure.

If you are experiencing difficulties with installing the unit or troubleshooting;
Please contact our technician line and we will be happy to help you.

N1000 4 PANEL SINGLE POLE WIRING



1. Connect the HV wire to the Pump wire with yellow butt connectors.
2. Heat shrink connectors
3. Cover in electrical tape.

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- Mount the On/Off Switch lower on the panels to have easier access
- **WARNING: Turn High Volt system switch to OFF when assembling.**

ADVANCED POWER

apiok.com

Tech.Line : 1-877-519-7893

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