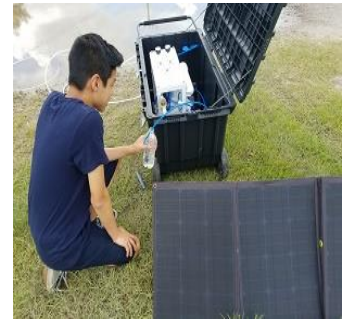
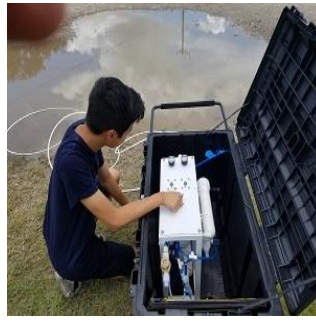




## Portable Solar Powered Water Purification

**Combined Ultra-Filtration and Reverse Osmosis Technology in a Rugged Mobile Case  
For Emergencies and Remote Locations**



Introducing our Potable Solar Powered Ultra-Filtration and Reverse Osmosis Water Purification System. This system is designed for Disaster relief, Off-Grid living, camping and more where access to potable water and/or electrical power is not available.

Our system is designed to be powered one of three ways: 110V, solar and battery, or battery only. Setup and ready to purify in less than 10 minutes, this system produces either Ultra-Filtered water only or two-pass, Ultra-Filtered water followed by Reverse Osmosis. Ultra-Filtered flow rates are up to 2600 GPD (9.842 Liters). Two-pass, Ultra-Filtered and Reverse Osmosis flow rates are 200 GPD (757 liters) Flows are based on a 24-hour operation. Depending on the water source, RO will help meet World Health Organization drinking water recommendations of Total Dissolved Solids (TDS) < 1000 ppm.

The complete system comes housed in a rugged carrying case, including heavy duty wheels and extendable metal handle, allowing it to be operated in remote locations. The membrane-based filtration is at the heart of its design. Assembled and enclosed in the case is (2) Ultra-Filtration membranes and (2) Reverse Osmosis membranes. The Ultra-Filters remove contaminants 0.01 micrometer size or greater, including bacteria, viruses, and colloidal silica. The Reverse Osmosis membranes remove Total Dissolved Solids by 90-98%. A final coconut shell activated carbon filter improves taste and odor.

Maintenance of the equipment is minimal. Pressure gauges indicate when the Ultra-Filtration membranes are becoming fouled. Stop the machine and switch to backwash. Backwash typically requires no more than 5 minutes, then the machine can be placed back into operation.

The solar electrical controller has multiple functions and display, including a run timer. This allows the user to verify power charge and conditions. A power switch changes from solar to 110v input.

The system comes complete with everything you need, including 12 Volt Battery, Solar Panel, 50 Gallon Potable Water Storage Tank, and a connection port to power cell phones and more.

**Intended for use on most ground water and surface water supplies. Not intended for wastewater sources or feed water questionable in contents. Call to discuss if necessary.**

**Water Tech Sales and Consulting, Inc.**

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## Portable Solar Powered Water Purification

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## Specifications and Features

(2) Ultra Filtration Membranes  
(2) Reverse Osmosis Membranes  
Activated Carbon Filter  
110 V, 12V Battery, Solar Supplies  
Solar Panel 100W  
Solar Charger Controller  
Heavy Duty Wheeled Case

Self-Priming Feed-Dispensing Pump  
On/Off Switch  
50 Gallon Folding Potable Tank  
Pump Discharge Gauge  
RO Feed Pressure Gauge  
Bulkhead Fittings  
All Hoses and Fittings

RO Flow rates up to 200 GPD\*

Can be operated in Ultra Filtration only mode for flow rates to 2600 GPD \*

\* Dependent on Feed-water conditions

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