



Villager® S12-4

Solar Powered Water Treatment System



Small Villages and Towns in Remote Locations WITH Water Pressure coming from Rivers or Lakes and No Electrical Power
720 gallons (2664 liters) per hour, approx (DOH)

<ul style="list-style-type: none"> • Turn-Key Systems, Built-in Flexibility • Easy Set-Up, Instant Water Production • 12 gallons / 44 liters per minute Maximum • 720 gallons (2,664 liters) per hour approx • 24 Hour Programmable Timer for Control of running time per day • Pre-Plumbing and Pre-Wiring already Installed 	<ul style="list-style-type: none"> • 0.5 micron Carbon Block Filtration • Ultraviolet Light (UV) Water Disinfection System • 12- volt Photovoltaic Solar Panel / Battery Powered • Control Panel: 16" tall x 9" wide x 2" deep. 5 lbs. • Solar Panel: 2 @ 27" W x 38" L x 2" D x 20 lbs. • Battery: 12 volt - 13"L x 7"W x 10"D x 75 lbs. • 10 ft Inlet and Outlet Flexible Hose Connections
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Cleaner and Safer Drinking Water from Raw Water Sources such as Rivers, Lakes and Water Tanks

Aqua Sun manufactures the **Villager – S12 - 4** System. This system is a wall mount system and is completely automatic that can take an existing water line that is getting its water from rivers, lakes, water tanks and cisterns and produce approx 12 gallons / 44 liters per minute x 60 minutes = 720 gallons / 2,664 liters per hour. This system can run approximately 24 hours continuously without sunlight. This system will use a solar / battery powered 12 volt system to supply its primary power needs. Whenever the sun is shining, the solar system will always be recharging the battery, even when the water treatment system is working. This system comes as a turn-key package. It is designed for easy installation as all of the wiring is pre wired and all that needs to be done is hang the water treatment system on the wall in a convenient location. Plumbing IN and OUT of the water treatment system is easy with flexible 10 foot inlet Female Brass Garden Hose Fitting and 10 foot outlet Male Hose (NSF Approved) pre-plumbed into system. The Controller Panel will need to be located with-in 3 ft of the Water Treatment System preferably in between the 2 systems. The Battery Wire is prewired and will need to have the positive and negative wires connected to the Battery. The water tubing between the 2 systems is Flexible Female Hose Brass Fittings for easy installation. Mount the Solar Panel in a sunny location and within 25 feet of the system in a convenient sunny location. Attach the solar wires to the panel that are already prewired into the control box on the side of the solar panel. Install filters and UV Lamp. Plug the UV Control Box and the Lamp Out UV Circuit Valve into the Control Panel Wire. Set the 24 hour Programmable Timer to run for approx 10 hours per day and the system is ready for operation. It is simple and easy to install the Villager S12-4 Solar / Battery Powered Water Purification Systems.

This **Villager S12-4** System requires a minimum of 20 psi to push the water through a Washable Reusable Filter to remove the larger debris and sediment and can be washed off and reused. The water then goes through a **Sediment Filter** that removes the sand and grit. The water is then pushed through a 0.5 micron. **Carbon Block Polishing Filter** that has the capabilities of removing **Giardia and Cryptosporidium Cysts, Entamoeba and Toxoplasma Cysts, Herbicides, Pesticides, Trihalomethanes (THMs), certain Volatile Organic Chemicals (VOCs), Chlorine and Chlorine By-Products, Sediment, Bad Taste, Odors, Color, Smell, and many other Harmful Chemicals and Contaminants.** The polished crystal clear filtered water is then channeled past an **Ultraviolet Light Disinfecting Process** that has the ability to kill the **Bacteria, Viruses, Typhoid Fever, Coliform, Dysentery, Cholera, Infectious Jaundice, Hepatitis and Influenza Virus, E-coli, Enteric Fever** and many other unwanted microorganisms to a 99.999% purity.

Life expectancy of the Washable / Reusable Pre-Filter and Sediment depends upon how dirty incoming water.
Life expectancy of the Carbon Block Post-Filter with clean incoming water is 150.00 gallons or 1 year.
The Ultraviolet Disinfecting Light life expectancy under normal usage is 9000 hours or 2 year.

These Systems are approved for **air shipments** inside and outside the continental United States.
All water contact components carry a **NSF Approval Rating** and the ultraviolet light carries a **Certificate of Analysis.** The filter and UV light manufacturers are members of the **Water Quality Association.**

Aqua Sun International is a registered **DEPARTMENT OF DEFENSE CENTRAL CONTRACTOR**, an approved **UNITED NATIONS SUPPLIER**, and a member of the **AMERICAN SOLAR ENERGY SOCIETY (ASES).**

WASHABLE / REUSABLE Pre-FILTER

Removes river and lake water particles such as leaves, twigs, sediment and protects the sediment pre-filter from premature clogging. This filter is easily washed and cleaned when clogged.

APPROXIMATE FILTER LIFE EXPECTANCY depends on how dirty incoming water is or 1 year maximum.

SEDIMENT FILTER

Removes ground water sediment and protects the carbon block filter from premature clogging. Not washable.

APPROXIMATE FILTER LIFE EXPECTANCY depends on how dirty incoming water is or 1 year maximum.

0.5 micron CARBON BLOCK FILTER

Removes and reduces giardia lamblia and cryptosporidium cysts, entamoeba and toxoplasma cysts, volatile organic chemicals "VOC's" pesticides and herbicides, benzene, sediment, color, bad taste and odors such as hydrogen sulfide "rotten egg smell" and many other microorganisms down to a 0.5 micron. This Carbon Block Filter polishes the water crystal clear for refreshing good tasting water. **APPROXIMATE FILTER LIFE EXPECTANCY 150,000 gallons / 555,000 liters or one year of clean incoming water maximum.**

ULTRAVIOLET DISINFECTING LAMP

Clean, safe and natural UV light rays have the ability to kill the bacteria and virus to 99.999 % purity without any harmful side effects much like chemical agents normally added to drinking water. The ultraviolet range is ideal for killing Micro-organisms such as E-coli, Coli form, Cholera, Legionnaires Disease, Hepatitis Virus, Typhoid Fever, Dysentery, Infectious Jaundice, Influenza, Enteric Fever and many other unwanted Microorganisms.

APPROXIMATE UV BULB LIFE EXPECTANCY 9000 hours, or approx 12 – 18 months.

Standard Features:

- **Size;** Filters 30" long x 16" wide x 9" deep, 2 pieces.
- **Size;** Control Panel 24" long x 14" wide x 6" deep.
- **Standard Operating Power;** Solar Electrical Producing Panel, Battery and Controls.
- **Output Watts;** Ultraviolet Light only; 22 Watts / 1.89 amps per hour.
- **Weight Empty;** approx. 80 lbs. Shipping Weight Not including Battery. Battery 75 lbs
- **Inlet Connection;** ¾ "Female Standard Hose Threaded Port / Swivel. 10 feet long.
- **Outlet Connections;** ¾ "Male Standard Hose Threaded Ports. 10 feet long
- **Rated Water Pressure;** 20 PSI minimum / 65 PSI maximum.
- **Ultraviolet Lamp Output;** 16,000 microwatt seconds per centimeter squared and carries a Certificate of Analysis.
- **Hoses, electrical cords and all misc. fittings** included with system.
- **NSF and FDA APPROVED** on filtration and water contact components.
- **Filter / UV Replacement Parts** available as kits and individually.

Options:

- **U.S. Voltage:** 120 volt. 120 volt to 12 volt converter.
- **International Voltage:** 220 volt 50 Hz to Power Down Transformer to 12 volt converter
- **Lamp Out Circuit, (LOC)** System will not flow / operate if UV light is not ON for Safety.
- **Battery:** approx 100 amp Sealed, Deep Cycle Solar or Marine Grade Battery. Approx **Battery Size and Weight :** Approx 13"L x 7"W x 10"D x 75 lbs.

Replacement Parts Kit:

Approx. water amount produced with Replacement Parts Kit = 600,000 gallon / 2,220,000 liters

Quantity

- 4 - Washable / Reusable Debris Filter
- 4 - Sediment Filters
- 4 - 0.5 micron Carbon Block Filters
- 2 - Ultraviolet Bulbs

System Includes:

Villager Complete S12-4 System, Replacement Parts Kit, Solar Panel.

Pricing excludes Battery due to shipping cost and or traveling problems with a battery and its weight.

Shipping Box Sizes:

- Water Treatment System; 2 Boxes 36" long x 22" wide x 12" tall @ 25 lbs each
- Replacement Parts Kit; 2 Boxes 24" long x 14" wide x 14" tall @ 20 lbs each
- Control Panel; 1 Box 30" long x 12" wide x 12" tall @ 20 lbs.
- Solar Panel; 1 Box 30" long x 40" wide x 4" tall @ 22 lbs. 2 Boxes
- Shipping Overseas: Internationally Approved Box: 40 x 48 x 35 @ 350 lbs

We can ship this system most anywhere in the World. Individually or Ocean Containers.

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