



The SolarWave WP700 is a solar powered water purification system that cleans water using proven ultra violet (UV) disinfection technology and fine sediment and carbon pre-filters. UV is a chemical free process which deactivates bacteria, virus, and protozoa by up to 99.99%, thus providing clean and safe drinking water which meets the World Health Organization's and local health departments' standards for potable water.

The WP700 includes a high-efficiency water purification unit and a quality solar power system, mounted in a light-weight, powder coated aluminum cabinet for ultimate robustness and durability.

Through its built-in 12 volt outlet and 5 volt USB outlets, the system also provides clean and reliable electrical power for all needs, e.g. electrical light and charging of mobile phones, laptops, radios, and others.

The WP700 is very easy to use and virtually no installation is required. Simply mount the cabinet on a wall and the solar panels on the ground or on a roof, connect the inlet and outlet water hoses, and start enjoying safe drinking water from rivers, lakes, shallow wells, ponds, rain water harvesting tanks, etc.

The primary power source of the SolarWave WP700 is a deep-discharge, long-life AGM battery bank that ensures continuous operation of the water purification unit for extended periods of time. The battery is charged by a high-quality crystalline solar panel array.

The system has a built-in safety interlock that, in the unlikely event of a system malfunction, will sound an alarm, automatically shut down the pump, and close the water outlet to prevent further use of the system.

As with all SolarWave solutions, the WP700 is a reliable, high-quality product specifically designed for use in remote rural areas under tough operating conditions. Its rugged aluminum cabinet and all internal components meet IP class 54 and hence effectively withstands dusty and wet climatic conditions.

Technical Specification

Solar panel array capacity	500 W
Battery capacity	12 V / 180 Ah (AGM deep cycle)
Electrical output	12 V / 10 A, 5 V / 2 A (USB)
Water cleaning capacity	Nominal 600 liters per hour *
Power consumption	Nominal 75 W (peak 100 W)
Dimensions:	water purification unit solar panel battery
	630 x 650 x 180 mm 1,650 x 992 x 40 mm (2 pcs) 350 x 167 x 183 mm (2 pcs)
Weight:	water purification unit solar panel battery
	26 kg 20 kg (x2) 27 kg (x2)
Max. vertical distance between water surface level and the location of the unit	3 m
Max. inlet water pressure	1 bar
Recommended max. water input temperature	40 °C
Security and safety	Auto shut-off in case of malfunction

* Depending on actual operating condition such as type of filters, condition of filters, lift head etc.

Maintenance

UV lamp	Replace every 9,000 hours or at least once a year
Quartz sleeve	Clean with standard household citric acid, bi-annually
Filters	Replace or clean as needed
Batteries	Maintenance free, replace as needed
Solar Panels	Dust as needed
Potable water tanks (optional)	Thorough cleaning using Sodium hypochlorite solution, monthly



Safe water – anytime, anywhere