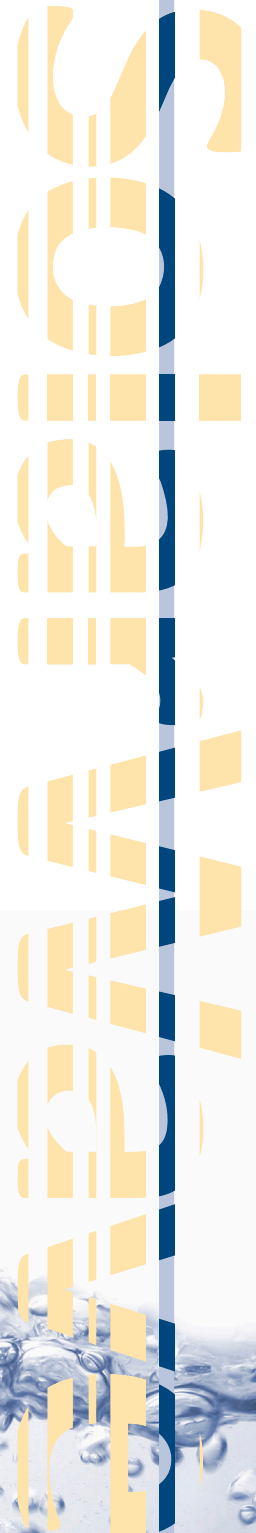


SolarWave
www.solarwave.se

SOLAR POWERED WATER PURIFICATION SYSTEM

November 2011, version 1



Solar powered water purification system

System specification

November 2011, version 1

Solar powered, high capacity, fully mobile and reliable water purification system.



The solar powered water purification system is a self-contained system. The environmentally-friendly technique of supplying power to the unit makes it uniquely suitable for both itinerant and stationary uses.

GENERAL DESCRIPTION

The system consists of two main parts: a photovoltaic driven power station and a water purification unit.

The photovoltaic unit provides clean reliable electrical energy. The system has a 12 volt output that provides clean reliable electrical power for all needs, e.g. electrical light, charging mobile phones, laptops, radios and others.

The water purification unit cleans water using proven UV disinfection technology without any chemicals. The purification unit eliminates bacteria, virus and protozoa, thus providing clean and safe drinking water which meets the World Health Organization's and Health Department's standards for potable water.

The system itself is very easy to use with virtually no installation required. For extra safety it has a built-in alarm function: if the purification unit is out of order, an alarm instantly sounds, following which the pump automatically shuts down.

TECHNICAL SPECIFICATION

Solar Power	85 W
Battery capacity	60 Ah (not included)
Electrical output	12 V / 7.5 A
Water cleaning capacity	700 liter/hour
Current	8.3 A
Weight	13 kg
Dimensions	560 x 600 x 140 mm
Recommended max water input temperature	40°C
Security and safety system	In case of malfunction, an alarm sounds and the pump shuts down automatically.

Maintenance

UV-lamp	Replace every 3 years in normal use 8 hour/day, 5600 litres/day
Filter	Replace when needed, low water flow

Spare parts

Fuses: Standard car fuses

Pump membrane

Safe water – Anytime – Anywhere

Creates the foundation for

Sustainable Development and Health

