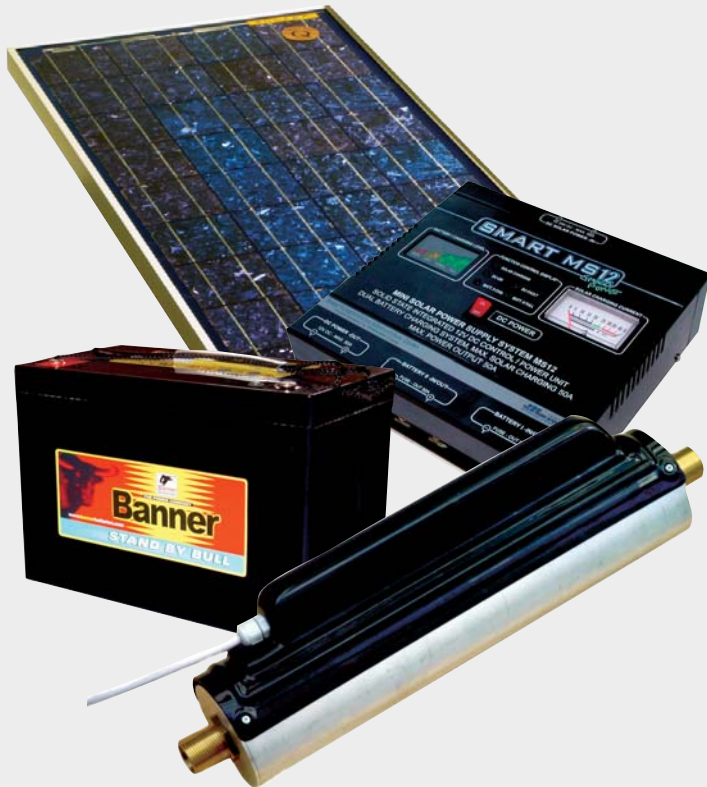


SMART CLEAN WATER PACKAGE

▪ Introduction

Water Purification Solar Home System



Description

Wherever there is human life there is the necessity of clean potable water. Often enough underserved people do not have access to water resources which are guaranteed to be harmless to their health.

This set purifies up to 300 litres per hour from germs and bacteria of any kind (e.g. legionellas) hence providing potable water for 480 people a day *.

Thanks to its input voltage and its matchless low power consumption of only 10W, the UV purifying unit suits perfectly the demands of a solar device.

By charging the battery with solar energy it is possible to have the system run even at night.

Special Features

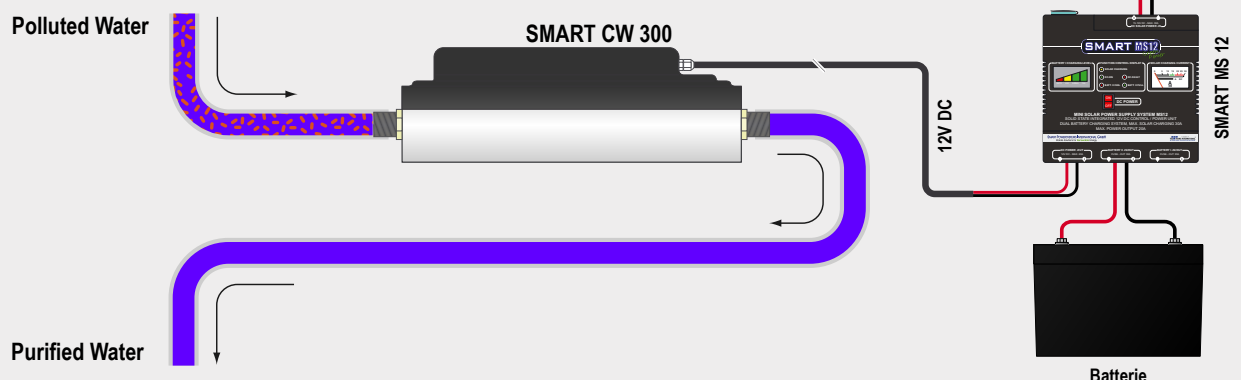
- a complete solution for germ-free and clean potable water
- fast, easy and local sterilization of water up to 300 litres per hour, 24 hours a day
- high efficient low energy consuming solar powered system
- high quality, reliable system components
- long living, inert and self cleansing plastic tube for constant purification quality
- simple do-it-yourself installation

Operation & System Layout

The PV module is connected to the solar charging device SMART MS12 that charges the battery through its built-in solar charge regulator.

The stored energy can be used to run the UV device or any other appliances that runs at 12 VDC being directly connected to the SMART MS12.

Just plug and purify!



SMART CLEAN WATER PACKAGE

▪ System Components

Scope of Delivery

- 1x UV purifying unit **SMART CW 300**
- 1x Control / power unit **SMART MS 12-20**
- 1x Solar module **SMART SM85**
- 1x Maintenance-free sealed AGM battery **SBV 55**
- 1x Complete cable set for wiring of components

Technical Data of Package

System voltage:	12V DC
Power output (12V DC):	20A
PV power:	85Wp (4.72A / 18.0V)
Battery capacity:	55Ah (C=20)
Operation time of purifier:	24h / day
Flow rate of purified water:	300 lt. / h
People served:	~ 480 / day
Total weight:	~ 30 kg

Description of Components

SMART CW 300

Highly efficient UV water purifying unit for fast and easy local sterilization of germ and bacteria polluted water. This device purifies up to 300 litres per hour and has an extremely low consumption of only **10W at 12V DC**. Robust and corrosion-free materials guarantee a long and trouble-free operation.

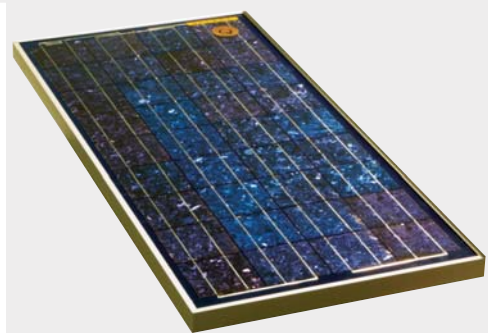


SMART MS 12-20

Compact "plug and play" Solar Home power supply system with newly developed solar charging system for easy installation. It can manage two independent 12V DC battery banks and a total of **30A** solar charging power. Thus the Solar Home System can be extended easily later on just by adding additional solar modules without changing the control unit. Furthermore the SMART MS 12-20 disposes of a switchable power output by terminals and cigarette lighter socket for direct connection of DC consumers up to **240W (20A)**.

Solar Module SM 85

Polycrystalline **85Wp (4.72A/12V)** solar module with high-efficiency solar cells. Top anti-hydroscopic and UV and ozone resistant sandwich technique with special tempered glass. Wheater and waterproof foil provide highest life expectancy even under extreme climatic conditions: Ice, hail, snow, storm have no effect on the solar modules. The solar modules are designed to resist extreme humidity, heat and cold. Therefore these solar modules fit in all requirements for a reliable and professional use around the world.



Batterie SBV 55

The Standby Bull Block **55Ah (C=20h) / 12V** battery is a valve regulated lead acid battery, designed with AGM (Absorbed Glass Mats) technology, high performance plates and electrolyte to gain extra power output for common power backup system applications widely used in the field of UPS and in the Renewable Energy Sector. This battery guaranties many years of trouble free and safe operation. It is thus ideally suitable for the SMART hybrid power supply systems.