Portable solar desalination

Desalination

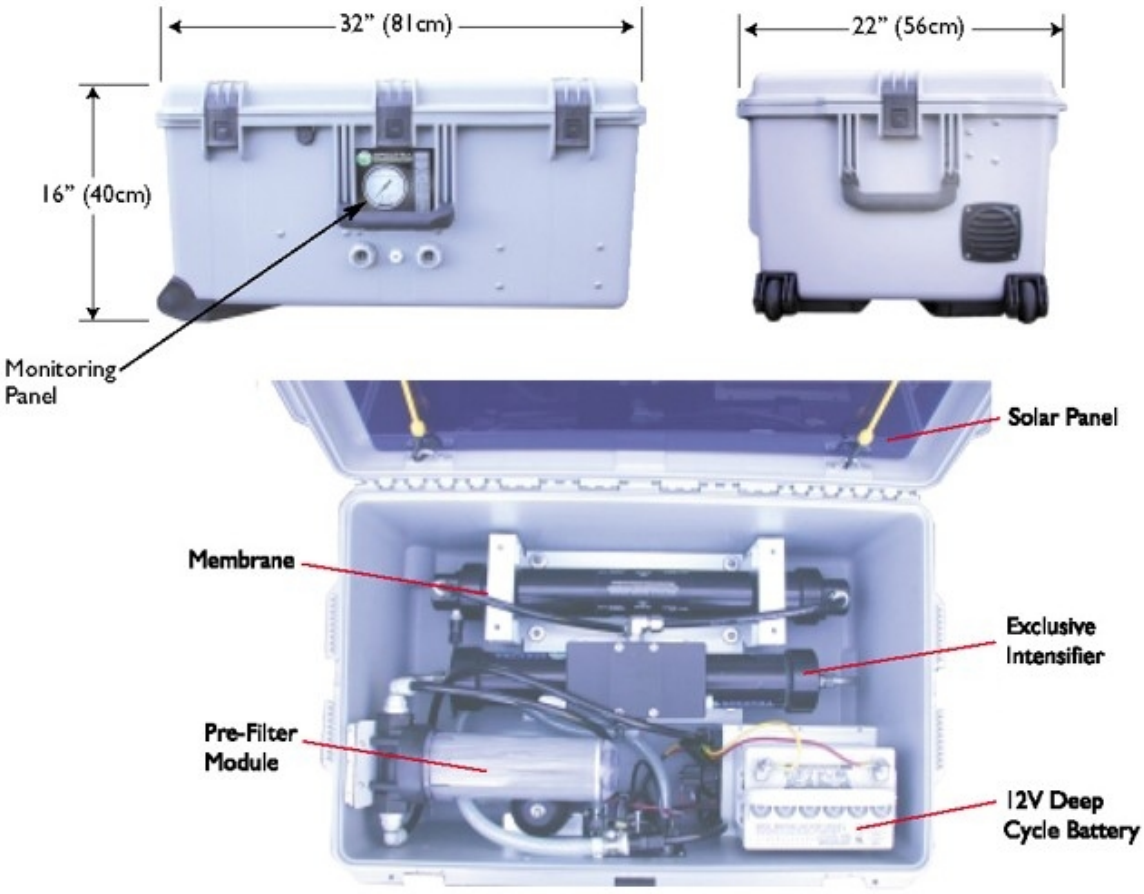
DWC Aquifer PV 500L

A portable, solar powered small scale desalination system designed for remote locations. It is easily transportable or it can be installed in villas, fincas, houses, apartments or any other locations.
The DWC Aquifer PV 500 L system makes 500 liters of purified fresh drinking water every day in almost any climate or around 24 liters per hour. The portable desalinator is compact, light weight, energy efficient, self contained, easy to use, easy to install and quiet,

The DWC Aquifer PV 500 L is an affordable, light weight and compact watermaker installed in a shock resistant, non-corrosive case, ready to plug in and run. All you need is salty or brackish or fresh water (from a bay, lake or river) and a 12 vdc power source from your battery pack or optional solar panels.

Every DWC Aquifer PV 500 L comes complete and ready to run. It includes a factory-mounted High Pressure Intensifier, a 20-inch membrane in a vessel assembly and diaphragm feed water pump enclosed in a corrosion proof impact resistant case. A feed water pressure gauge, product water flow meter, Off/On switch and hand held salinity monitor are all standard features.

The Power Pack (PP) system features a deep cycle 12 VDC battery with 32 A.H. and 230VAC battery charger built into the system. It can run for several hours directly off it's battery and can be recharged from any 12vdc or 230vac power source.



Weight	**48 kg**
Output with 25°C Seawater	**24 l/h or around 568 liters / 24 hours**
(rated at 25°C seawater temperature at 35,000ppm Dissolved solids +/-15%)	
Pump Horsepower	**1/8**
Amp/hr per Gallon	**(12 VDC) 1.4**
Watt/hr per Gallon	**17**
Current draw (12VDC)	**9 Amps**
Overall energy consumption	**100W**
Recommended solar panels	**150 W/p (15 Amp regulator)**
Max lift of standard pump	**12ft / 3.5m**
Small boost pump for higher lift optional	**(2 Amp / 12 VDC)**