

INDIGENOUS POWER



SUN³

SOLVING A COMPLEX PROBLEM THE WORLD OVER

THE SUN CUBE
PROVIDES A CONSISTENT SOURCE OF CLEAN
PURE DRINKING WATER, EMERGENCY POWER,
LIGHTING AND COMMUNICATIONS



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“A sub-Saharan baby has 500 times the risk of dying from diarrhea compared with a baby born in the developed world: improving drinking water quality would reduce that risk substantially.”

- WHO/UNICEF, Water for Life, 2005

Across much of the developing world, more than 4,900 people die each day from waterborne illness; 90% are children under the age of five. Over 1.1 billion people worldwide (20% of the world population) must walk more than one kilometre to find water that is often unsafe to drink. An estimated 6 million died in 2003, according to the World Health Organization.

In addition to death and illness, a loss of hope and opportunity are direct consequences of waterborne and related diseases. Access to adequate, clean, affordable supplies of water, as well as sanitation and hygiene, is fundamental to human health, to human dignity, to reducing poverty, and to expanding economic opportunity. Yet a billion people or more go without safe drinking water.



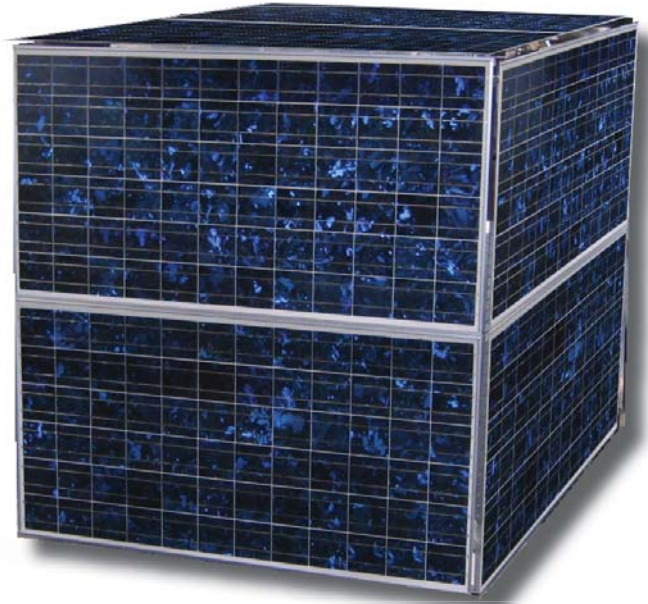
SUN³
WATER PURIFICATION
MOBILE COMMUNICATIONS

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Introducing the Sun³ MWPU

The key role of the Sun³ MWPU (**Mobile Water Purification Unit**) is to provide critical stand-alone water purification. Eliminating up to 99.9% of infectious living organisms including E. coli, Giardia, and more. Powered by an array of photovoltaic panels, the Sun³ removes pathogens and kills bacteria in contaminated water (even flood water) and produces up to 20,000 gallons a day of pure, potable water. The light-weight modular construction of the Sun³ allows for rapid deployment to critical disaster relief areas and is capable of pumping contaminated water from 250 ft. away to the Sun³ Purification unit.



Light Weight Equals Better Mobility

Once the deployment of the photovoltaic panels has engaged, the Sun³ starts producing life sustaining clean water within less than 30 minutes. The Sun³ is capable of pumping clean water at 50 psi, powerful enough to fill large aboveground water tanks along with its 350 gallon internal storage tank. In addition to water purification, the Sun³ supplies auxiliary power for lighting and optional satellite broadband communications and WiFi.

1. Pure water is guaranteed by employing an automatic switch if the sterilization unit fails.
2. Pretreatment of particulates in water source ensures long filter life.
3. Use of nano-ceramic filtration in the post filtering stage removes oils and toxins that ultraviolet cannot do.
4. Includes easy plug-in adaptation of motor generator.
5. Modular plug and play power and water purification components allow fast and easy servicing and replacement in the field.
6. Use of ruggedized power equipment that meets military specifications ensures long service life.
7. All structures and equipment meet standards for deployment in tropical and severe weather regions.
8. Solar modules are specially designed to meet harsh and rugged deployment.
9. Outside dimensions allow compact and efficient shipping in standard ocean-going containers.

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SUN³ WATER PURIFICATION MOBILE COMMUNICATIONS

- Produces up to 3500 gallons per hour of safe drinking water - sufficient for a community of 5000 people at 15 liters per person
- Requires no generators or outside source of electrical power
- Can be easily transported, installed and maintained at very low cost, requiring minimal training to operate
- Requires only occasional, very simple replacement of consumable items
- Reliably withstands the extreme conditions encountered in disaster relief, as well as successive relocating, by virtue of its rugged construction and the use of materials that ensure a long system working life in excess of 25 years



SUN³ MWPU (Mobile Water Purification Unit) Specification	
Photovoltaic Capacity	Up To 4800 watts
AC Power	Up To 3600 watts
Reserve Power (Night time operation)	Up To 16 kwh
Water Purification	Up To 20,000 gallons per day (75,708 liters per day)
UltraViolet Water Purifier	40 Gallons Per Minute (153 Liters Per Minute)
Transport Dimensions	Length 6 ft (1.83 Meters) Width 6 ft (1.83 Meters) Height 6 ft. (1.83 Meters)
Weight	2500 lbs (1,134 kilograms)

Additional Options	
Satellite Phone	Communications from anywhere around the globe
Satellite Communications	Network Broadband provides connectivity that is faster than DSL, fully customizable and able to meet all demands for converged voice, data and video applications on one platform — anywhere in the world
WIFI	Up To 1 Kilometer

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