

# Mobile MaxPure<sup>TM</sup>



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## Water Purification System

☀ Three stage purification process removes dirt, silt, sand, bacteria, pathogens, cysts and viruses

-Stage one: media filter for removing turbidity and reduce particle size to 20 microns or less

-Stage two: carbon cartridge filtration to further reduce particle size to 5 microns or less

-Stage three: sterilization by ultraviolet light disrupts the DNA of target organisms rendering them inactive and benign.

☀ Meets local water quality requirements as well as World Health Organization (WHO) guidelines for drinking water quality



## Solar Power Array

☀ 18 poly-crystalline silicon photovoltaic modules with a total capacity of 3100 Watts (3.1 kW)

☀ Tempered glass and EVA laminate construction of modules, combined with sturdy aluminum framing, allow for extended outdoor use

☀ Array is rated for 1 inch hailstones and hurricane force winds

☀ Custom designed folding mounting structure allows for quick deployment of array and compact storage when MMP is not in use

☀ Modules carry 25 year limited warranty on power output

## AquaMax Pumping Control System (patented)

☀ Proprietary 3 HP Variable Frequency Drive (VFD) motor control with MPPT controls pumping operations efficiently and automatically

☀ Allows for water purification/pumping from solar, grid, generator or battery power

☀ Advanced design incorporates "Dual-Voltage Switching Combiner" technology allows for high-voltage water pumping and low-voltage battery charging from one solar array

☀ 2HP submersible pump is designed for high sediment applications

TM

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## Solar Charge Controller



- ⌚ Real time active Maximum Power Point Tracking (MPPT) system ensures peak electrical output from the solar array regardless of its age, shading or environmental conditions.
- ⌚ Smart multistage recharging process prevents overcharging of battery bank and prolongs its life span.
- ⌚ Output Current: 60 amps maximum
- ⌚ Power Conversion Efficiency: 98% at 60 amps

## Battery Storage



- ⌚ 3000AH High Capacity battery bank allows for night water purification and lighting operations
- ⌚ VRLA gelled-electrolyte and sealed construction eliminates periodic watering, corrosive acid fumes, and spills. Increased durability for heavy demand applications
- ⌚ Less than 2% per month stand loss means little deterioration during transport and storage
- ⌚ Transports easily and safely by air with no hazmat restrictions. Rated non-spillable by IACO, IATA and DOT

## DC/AC Inverter

- ⌚ 3kW (6kW surge) high performance inverter provides standard 110 VAC electricity
- ⌚ Sealed design prevents corrosion allows continuous operation in extreme weather conditions
- ⌚ Internal and external fins for passive heat transfer
- ⌚ 93% operating efficiency
- ⌚ Nominal DC Input voltage: 48VDC
- ⌚ AC Voltage/Frequency: 120VAC 60 Hz



## Global Communications System

- ⌚ Allows satellite transmission and reception of IP packet and circuit switched data via USB, Ethernet, ISDN and WLAN interfaces
- ⌚ Provides a broadband LAN to enable simultaneous multiple user capability
- ⌚ 492 kbps IP data (transmit & receive) ⌚ FCC, CE, GMPCS certified

