



The mission of WorldWater & Solar Technologies is to make clean water and power available everywhere in the world through its proprietary solar technology

MiDAS™

Miniature Deployable Assistance System

Solar Powered with Battery Backup

Cost Effective
Quiet & Pollution Free
Low Maintenance
Reliable & Efficient

MiDAS™ is an affordable, self-contained, modular, hybrid-powered system providing portable water purification, communications and situational awareness capabilities. It provides services to small military teams or local responders in support of a wide variety of missions including humanitarian assistance/disaster relief (HA/DR) and operations in remote areas.

MiDAS™ components can be used separately or as part of a system-of-systems design to be deployed quickly to austere environments where essential services are not immediately available.

Features include:

- Water filtration and purification equipment with the capability to produce potable water from freshwater, brackish water and seawater
- Reliable, hybrid power for primary MiDAS Services (water purification and communications) capable of operating independently or as an integrated kit
- Interoperable global communications (voice, text and email) in austere or degraded environments; independent of existing communications infrastructure
- Access to commercial imagery and locational data on aid personnel, images and voice tracks for time- critical situational awareness and mission planning
- Information sharing on threats and/or status (e.g., recovery efforts, local populous, services, environment and infrastructure)
- The Joint Modular Intermodal Container is a U.S. Military approved light-weight container that provides easy access to container contents, uniform in size, easy to transfer and collapses to reduce space requirements when not in use
- Each component is contained within transportable cases and may be transported in a civilian Sports Utility Vehicle (SUV) or military type HUMVEE. Modularity of the system enables only the components required for the mission to be removed from the container



JMIC container - Military approved

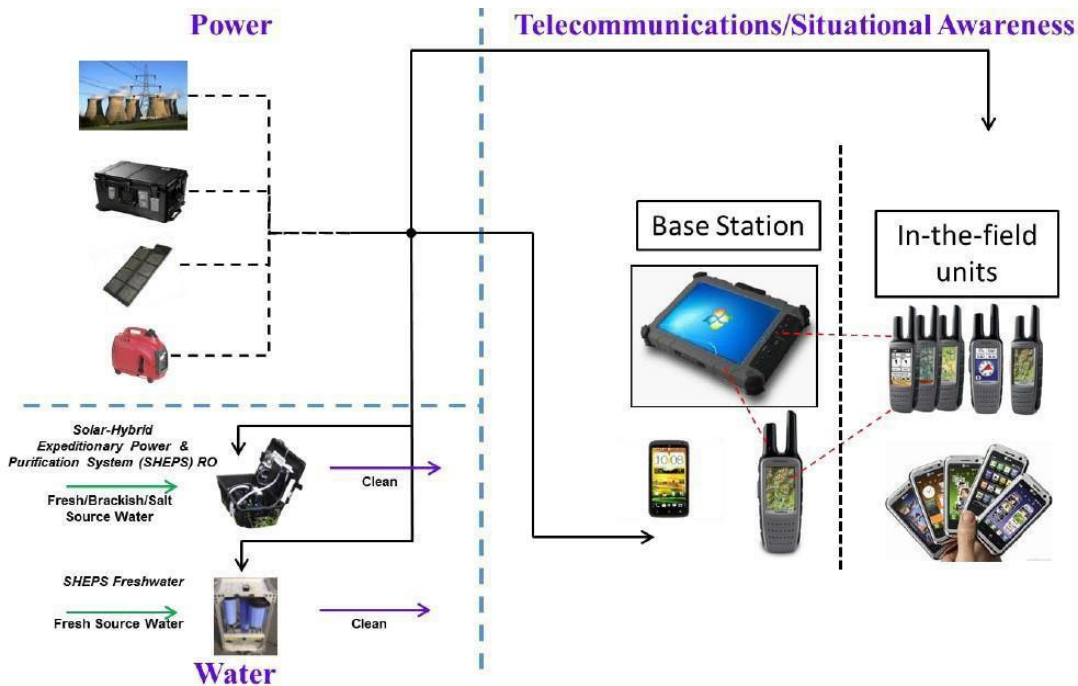


Water, Power & Communications



MiDAS Components





CATEGORY	#	UNITS/DESC.	DATA US (METRIC)
Operating Dimensions:	OPEN		Area for deployment of solar array, water purification, communications and container is 400 square feet
Transport Dimensions:	CLOSED		JMIC Intermodal Container: 43.75 inches long, 52 inches wide, 43.25 inches high (1.1 meters long, 1.3 meters wide, 1.1 meters high)
Weight:	DRY		Approx. 762 lbs. (345 kg)
Construction:	VARIOUS MATERIALS		Structural aluminum container; hard shell plastic case provide storage for all components & equipment
Solar Panels:	5 TOTAL WATTAGE		Four (4) 120 watt and one (1) 30 watt rugged, flexible, high efficiency crystalline solar modules
Aux. Generator:	1 TOTAL WATTAGE		2.0 kW generated by Honda EU200001
Batteries:	CAPACITY		Lithium-ion 2 kWh OASYS System, 24-28V
Power Management:	1 VDC/VAC/kW		24 VDC in: selectable output 120/60Hz VAC single phase, 220/50HzVAC single phase. Up to 1.5 kW peak, 3kW surge power, 415 watts sustained power with 5 hours of solar input; auxiliary generator input and generator are included.
Water Purification Ultrafiltration or Reverse Osmosis:	OUTPUT		SHEPS (Solar Hybrid expeditionary Power & Purification) Freshwater purifies up to 60 gallons (227 liters) per hour; multiple levels of filtration, including gas screen filter, sediment filter, carbon filter and ultrafiltration. SHEPS RO purifies up to 18 gallons (68 liters) per hour from water with TDS<45,000 PPM; includes pre-screen filter and sediment filter.
Communications:	SITUATIONAL AWARENESS		Six (6) handheld GPS/radios (Garmin Rino 655t), one (1) ruggedized tablet PC (ASUSEee Pad Transformer TS with case), Garmin BaseCamp™ software, and five (5) unlocked GSM ruggedized smartphones (Casio Commando). An optional BGA terminal (Thrane & Thrane Explorer 300) is available for voice/internet satellite communications.