



PVT1-56

Rapid Deploy Solar Generator with Electrical and Thermal Storage.

Deployments: Off-grid, disaster relief, developing nation, humanitarian and human welfare improvement.

Solar generators are two, PVT1 modules producing both hot water and electricity in a compact footprint. Large 200 Liter thermal storage system. DC charge controller with battery storage. Ease of deployment and efficient use of space. Collector angle adjustment for latitude. System ships on a standard 48" x 60" plastic pallet.

PVT1 Power Panel

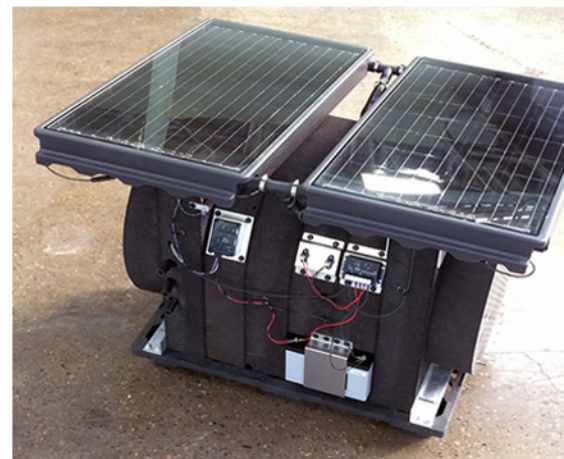
The PVT1 Power Panel combines standard photovoltaic technology with polymer plastics and silicone encapsulants to create active cell cooling and an innovative thermal transfer system in an integrated hybrid enclosure, producing both solar hot water and highly efficient, low-cost electricity in a single product. Certified to UL, SRCC and FSEC PV and Thermal standards. Made in USA.

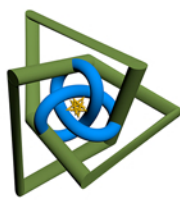
Thermal Storage Tank

Utilizes a standard UN profile 200 Liter (52 Gallon) storage drum. Plumbing components are enclosed in Expanded Polypropylene engineered foam support panels for minimal heat loss. Heat exchanger comprised of PEX coil passive loop for potable water heating.

PVT System

This innovative Combined Heat and Power system combines photovoltaic (PV) and solar thermal energy collection and storage into a single footprint. Power Panel's modular and scalable system configurations deliver both electrical and thermal energies for 80% peak sun capture. Well beyond any other comparable system on the market.

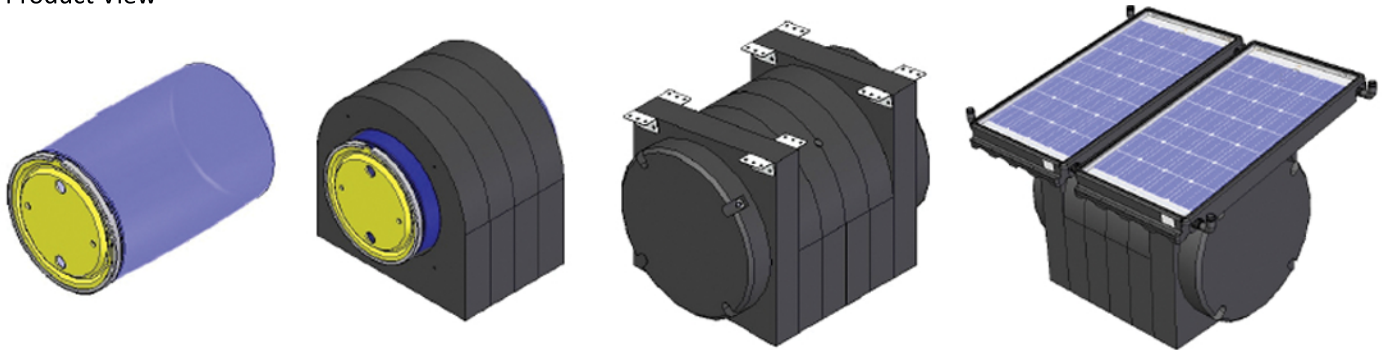




LEDOLAS

Lighting | Energy | Decontamination

Product View

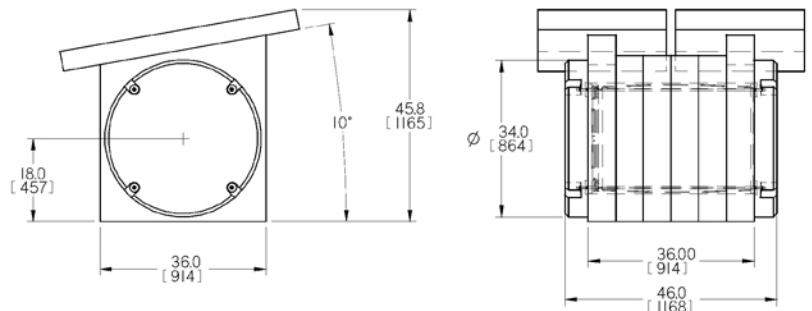


PV Electrical

230 Watt Peak PV Generation
12 Volt DC Solar Charge Controller
1kWh Integrated Battery Storage
Performance Warranty

Thermal Data

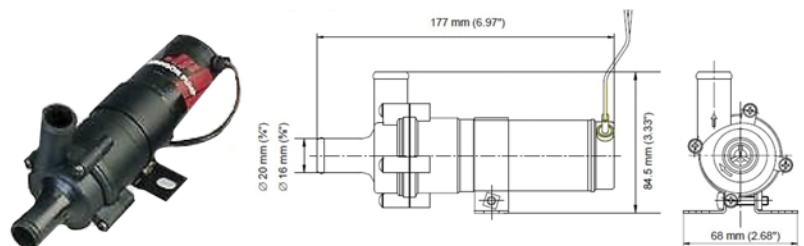
1,270 Watts Peak Thermal Generation
Thermal Harvest Controller
200 Liter (52 Gallon) Storage Capacity
Integral Passive Loop Coil Heat Exchanger



Shipping Weight: 165 LBS (75 KG) Load Distribution: 0.43 LBS/IN² (2926 N/m²)

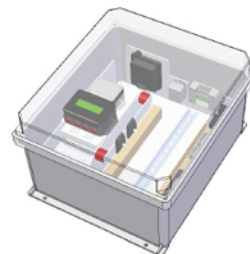
Centrifugal Pump

Thermal Harvest circulating pump is a DC powered, 12 volt permanent magnet, ball bearing mounted motor. Potable water supply pressure demand pump available option.



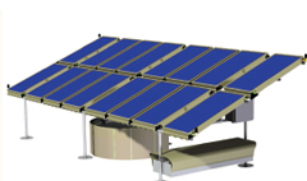
PVT System Controller

Micro-Processor Based Controls automatically operate the system for most efficient energy harvest. Web based system monitoring available. Contact LEDolas for additional information on our BEST monitoring system.

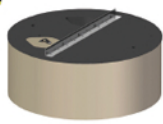


25 Year PV Performance Warranty
Made in USA
United States Patent # 8,476,522

Related Products



Systems



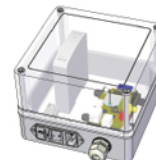
Thermal Storage



Racking



Plumbing



Controls



Balance of System