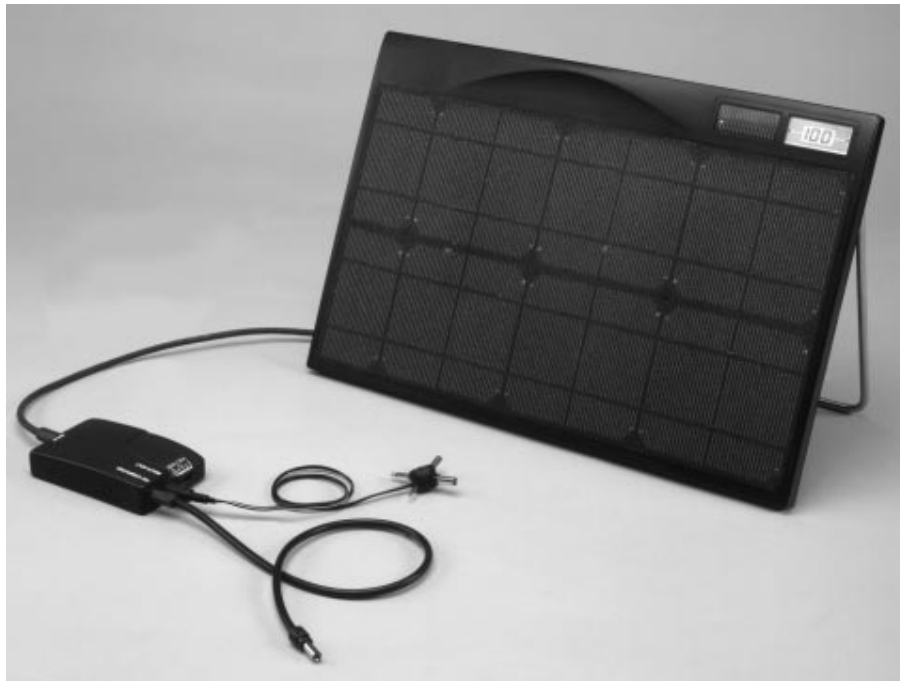


**SunWize™**  
**PORTABLE**  
**ENERGY SYSTEM**



**OWNER'S MANUAL**

Model # 10110W7V1.5ACPM

Congratulations on purchasing a SunWize™ Portable Energy System. This is the first high-efficiency solar recharging system that combines reliable power with an aiming system to maximize performance and measure power output.

This manual outlines system operation and possible applications.

**Laptop Computers**

The SunWize™ Portable Energy System is designed to extend the run time or recharge the batteries of your laptop computer. On a sunny day this system will typically double your operating time if you start with a charged battery. When your laptop computer is not in use, the system will recharge your batteries. In general, users will experience better

performance when the SunWize™ Portable Energy System is combined with good battery management techniques.

**Other Portable Devices**


The Multi-Volt Controller is designed with an additional output allowing you to power or recharge a variety of electronic equipment including cell phones, global positioning systems, transceivers, and other personal portable equipment.

**DO NOT PLUG IN YOUR SYSTEM UNTIL YOU HAVE READ THIS MANUAL THOROUGHLY.**

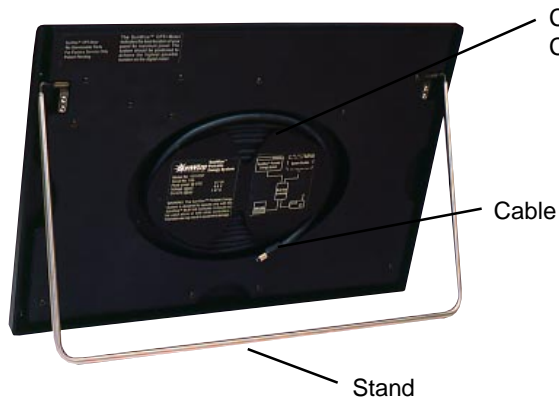
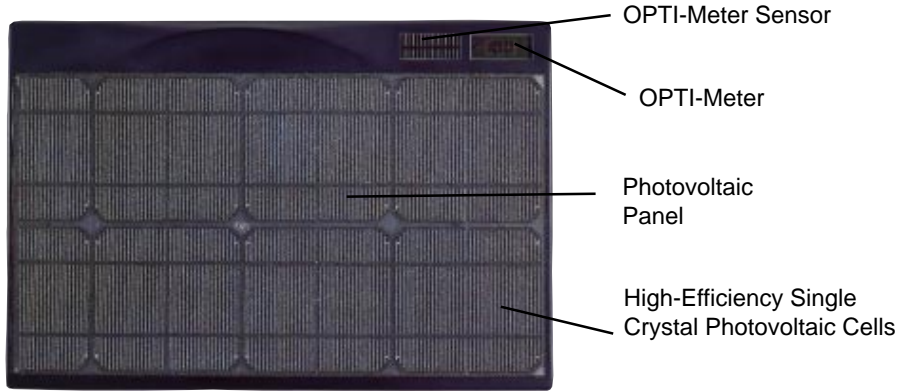
**COMPONENTS CHECKLIST**

- The following components and accessories are included:
- |  |   |
|--|---|
| 1. Power Panel with <ul style="list-style-type: none"><li>• 10 Foot Power Cable</li><li>• Adjustable Stand</li><li>• Storage Bag</li></ul> | 5. Laptop Computer Cables: <ul style="list-style-type: none"><li>• 2 dual purpose computer cables</li></ul> OR <ul style="list-style-type: none"><li>• 1 specific cable for your laptop</li></ul> |
| 2. Multi-Volt Controller   | 6. Owners Manual  |
| 3. Multiple Adaptor Cable with Pinwheel Plug   | 7. Custom Cable Envelope  |
| 4. Warranty Card   |   |

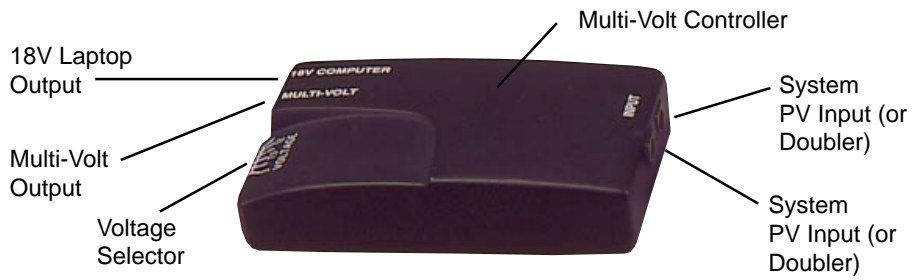
*If any of the above items are missing please call SunWize customer service at 1-800-81-SOLAR.*

 **WARNING**  
**TO AVOID DAMAGE TO YOUR EQUIPMENT, YOU MUST USE AND OPERATE THE SUNWIZE™ PORTABLE ENERGY SYSTEM IN STRICT COMPLIANCE WITH THE PROCEDURES DESCRIBED IN THE OWNER'S MANUAL.**

# SunWize™ Portable Energy System



SPECIFICATIONS
Peak Power @STC = 9.0W
Voltage (@pp) = 6.4V
Current (@pp) = 1.4A
Weight = 2.5 lbs.
Size = 11" x 16"



Multiple Cable



18V Cable

## **I. GENERAL INFORMATION**

### **CONDITIONS**

Your SunWize™ Portable Energy System has been designed for outdoor use. The panel and components are built to resist exposure to the elements and, when used in accordance with the instructions in this manual, will deliver years of reliable power.

Portable electronic devices are not generally designed to withstand direct exposure to the elements. We strongly recommend that you make maximum use of the 10 foot cable to place your portable electronics in a safe place while using your SunWize™ Portable Energy System.

### **TEMPERATURE**

The system will operate in temperatures of -10°F to +140°F (-23°C to 60°C). Although your system will provide power below -10°F, the liquid crystal display may not function and the controller will not operate efficiently. However, if the controller is above -10°F, the SunWize™ Portable Energy System will operate to -40°F/C. Higher temperatures than 140°F could damage the system.

### **MOISTURE**

The SunWize™ Portable Energy System is water resistant but should not be immersed in water. If the unit becomes wet it should be dried off to eliminate any possibility of corrosion.

### **THE PANEL**

The crystal solar cells are encapsulated in a durable, polymer plastic which is molded onto a rigid back panel. This double protection is designed to resist physical damage. No attempt should be made to BEND or FLEX the solar panel.

## **MAINTENANCE**

Keep the panel clean. Dirty panels absorb less sun. Never block the solar cells or sensor cell from sunlight during operation, this will effect the performance of the system. Connectors should always be kept clean so complete contact is always possible.

## **II. SYSTEM DESCRIPTION**

### **SYSTEM PANEL**

**Photovoltaic panel** - Solar cells convert sunlight to electricity and deliver power to the Multi-Volt Controller.

### **OPTI-Meter\***

Digitally displays the best solar position for maximum performance and also the power generated by the system.

### **Cable with Storage Compartment**

10 foot length of super flex, low-loss cable with easy wind storage.

### **Adjustable Stand and Hanger**

Allows precise positioning of the SunWize™ Portable Energy System for maximum performance.

### **MULTI-VOLT CONTROLLER**

Ultra-low loss electronic controller for connecting up to two system panels and providing power to a laptop computer and/or other electronic devices.

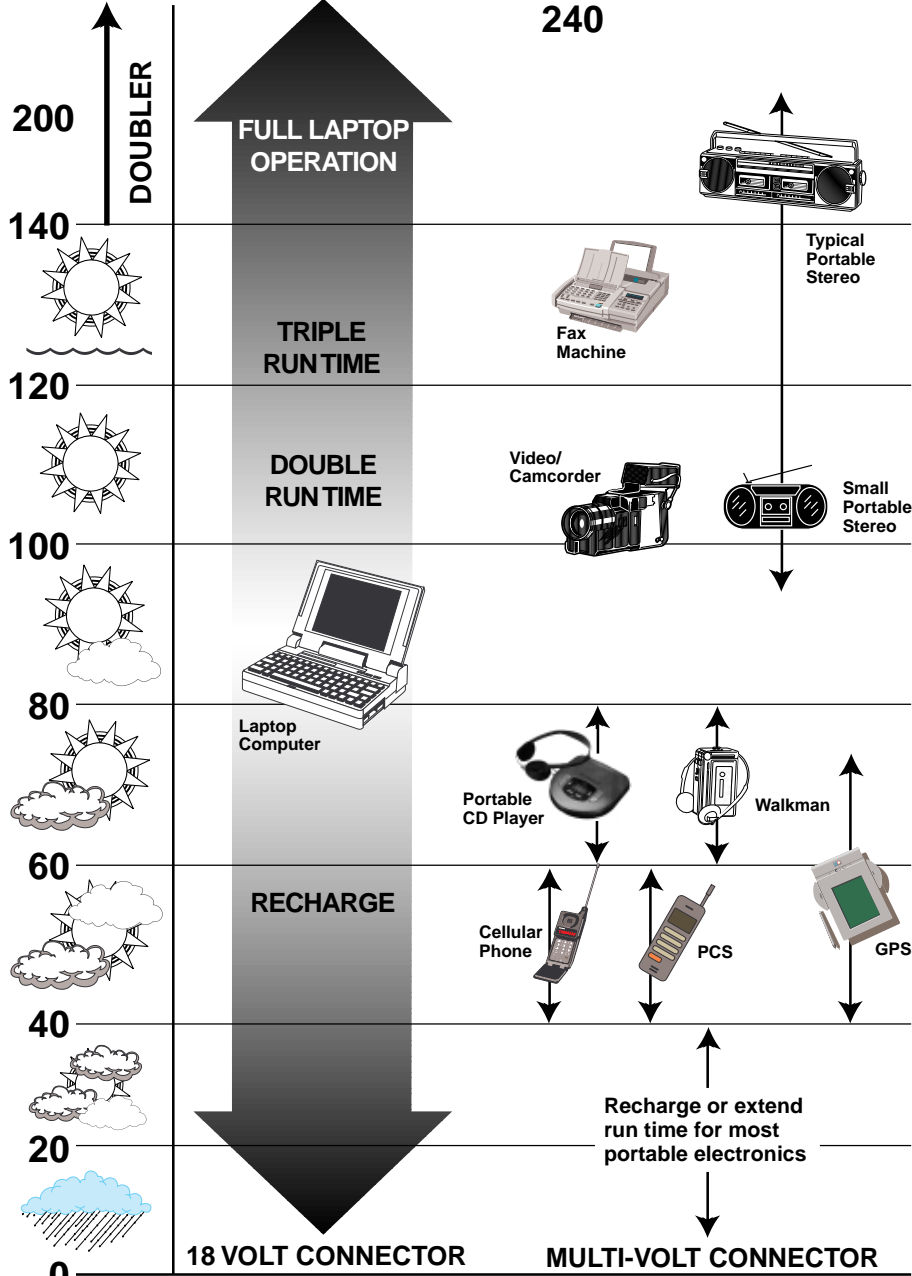
**Dual PV Inputs** - For system and System Doubler connections (ports are interchangeable).

**18V Laptop Output** - Dedicated output port for laptop computer connection.

**Multi-Volt Output** - Port for connection of other electronic devices (using voltage selector).

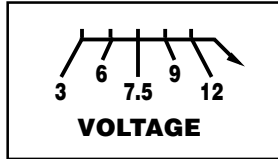
\*Patent Pending

# OPTI-Meter Reference Guide



Arrows show typical OPTI-Meter reading to operate this electronic product. Readings below the operating range will recharge your batteries (if they are rechargeable) or extend your run time if you are using the equipment. This guide is meant as a reference. Specific equipment varies widely in power consumption. Consult the owners manual for power requirements.

**Voltage selector** - Switch used to select output voltage on Multi-Volt port. The voltages available are shown below.

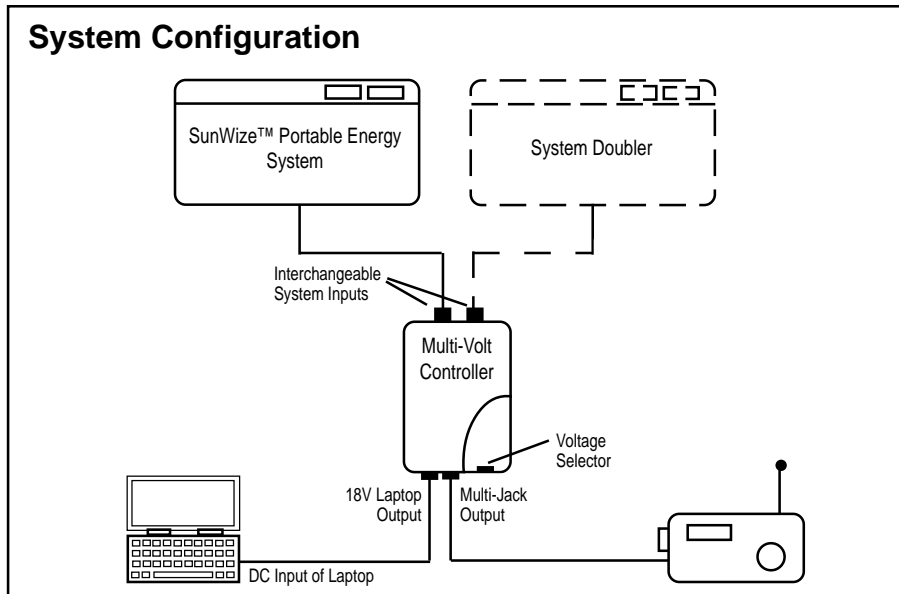


**LAPTOP CABLE CONNECTOR \*\***  
Connects the 18V Laptop Output to your laptop computer. Your SunWize™

**Note:** Make sure all connectors fit snugly.

### III. OPERATION

- Remove solar panel from protective sleeve to expose solar cells to direct sunlight
- Unwind solar panel output cord to desired length
- Plug output cable into Multi-Volt Controller system input. (The two input ports are interchangeable)



Portable Energy System is supplied with two popular laptop connectors and cables or, if these connectors and cables do not fit your laptop - refer to the custom cable envelope supplied with your system.

**MULTI-PLUG CONNECTOR**  
Connects the Multi-Jack output to other electronic devices using a pinwheel connector with plugs.

- Position solar panel according to guidelines below
- Plug laptop output cable into Multi-Volt Controller and DC input of laptop

### ORIENTATION

The positioning of your SunWize™ Portable Energy System is important to performance. Point the SunWize™ Portable Energy System towards the sun and adjust the position to obtain

\*\* For other information and availability on computer plugs/jacks contact SunWize customer service at 1-800-81-SOLAR.

the highest reading on the OPTI-Meter. **This will ensure the maximum performance.**

NOTE: If used indoors, place the system in a window (preferably a south-facing window) and adjust the position of the system to obtain the highest reading in the OPTI-Meter. The glass in a window will slightly reduce performance.

### **PERFORMANCE**

You will achieve a longer run time extension if you start with a full charge on your laptop battery and practice battery savings techniques. The system will recharge your laptop battery while you are not using your computer.

SOME MANUFACTURERS LIMIT THE ABILITY TO RECHARGE YOUR BATTERY UNTIL THE CHARGE HAS BEEN REDUCED TO 5 – 10%. THE SUNWIZE™ PORTABLE ENERGY SYSTEM CANNOT OVERRIDE YOUR LAPTOP MANUFACTURER'S CONTROL CIRCUITS. OUR SYSTEM WILL PERFORM UNDER THE SAME CONSTRAINTS YOU HAVE WHEN USING A STANDARD RECHARGER. IT IS IMPORTANT YOU CONSULT THE OWNER'S MANUAL OF YOUR LAPTOP COMPUTER.

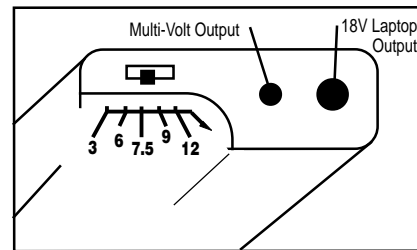
IMPORTANT NOTE: Use the power saving positions on both the computer screen and other accessories to achieve the results outlined.

### **SYSTEM DOUBLER**

SunWize offers a System Doubler panel which plugs into the Multi-Volt Controller to double the output of the system. On a sunny day the System Doubler delivers sufficient power\*

**to operate a laptop computer directly while trickle-charging your batteries.** The wide difference in laptop computer power requirements and battery charge rates may cause some performance variations between units.

\*Readings of a total of 200, or more (both digital readings added), should operate your laptop directly from your SunWize™ Portable Energy System with System Doubler.



*Multi-Volt Controller*

### **MULTI-VOLT PORT OPERATION**

This second power outlet allows you to power another electronic device. Check the voltage specifications for your equipment before you connect to the SunWize™ Portable Energy System. To select the proper voltage on the Multi-Volt controller, slide voltage selector switch to match your equipment voltage. Note that an incorrect voltage can cause a malfunction of your equipment. See reference guide to anticipate power requirements.

NOTE: **This is a negative ground power supply** and it will not work with a positive ground device (see equipment specifications), unless a separate reverse polarity adapter is added.

#### **IV. TECHNICAL SUPPORT & WARRANTY SERVICE**

In order to obtain warranty service, you must contact SunWize Technologies, Inc. and be prepared to supply the following information:

1. Where and when your SunWize™ Portable Energy System was purchased.
2. Your product serial number.
3. Description of the problem. If we cannot correct the situation through phone consultation, we will provide you with the following information regarding shipping the SunWize™ Portable Energy System to SunWize Technologies including:
  - Address for return of product.
  - Preferred shipping method (you are responsible for the shipping charges)
  - An RMA (return materials authorization) number to be prominently displayed on the return packaging.

International purchasers or domestic purchasers who leave the USA with their SunWize™ Portable Energy System are responsible for all return costs including but not limited to transportation, shipping, customs or duties, and taxes and any subsequent return to the owner.

#### **WARRANTY**

SunWize Technologies, Inc. warrants your SunWize™ Portable Energy System against defects in materials or workmanship for a period of one year from the date of purchase. If SunWize Technologies, Inc. shall determine during the warranty period that the product is defective, then SunWize Technologies, Inc. shall, in its sole discretion, either replace or repair the unit(s). Repair or replacement hereunder is the consumer's sole remedy.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse or negligence. This warranty does not cover damage due to improper operation or maintenance of the SunWize™ Portable Energy System.

**SUNWIZE TECHNOLOGIES, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. SUNWIZE TECHNOLOGIES, INC. MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**For Customer Service Call: 1-800-81-SOLAR**

*Manufactured by:*



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e-mail: [bgi@mhv.net](mailto:bgi@mhv.net) • [www.sunwize.com](http://www.sunwize.com)