

MANUAL**Model: PPT 12 - 2**

Solar Converters Inc. - Rev. B

QUICK START:

While it is recommended that the manual be read in detail before operating this unit, for the experienced technician, this section describes a quick system setup.

Power Connections:

Pump + to ORANGE # 16 AWG Flying Lead
Pump - to BLUE # 16 AWG Flying Lead
PV + to RED # 16 AWG Flying Lead

Connect Last:

Ensure Pump is clear and safe to operate

Power Connection: PV - to WHITE # 16 AWG Flying Lead

1.0 Specifications

Input Voltage: 0 - 24 DC volts PV Array, approx. 15 V nominal operating

Current: 0 - 3 Amps DC amps nominal,

Output Voltage: N/A -defined by load and solar panel

Current: 0 - 3 DC amps nominal,

Connection AWG # 16 Flying lead

Efficiency: >96% over 20% charging load,

Transient protected

Temperature range: -40 C to +60 C

Start Current: 15 Amps for 10 seconds

2.0 Power Connections**2.1 Pump Connection**

Using wire of sufficient amperage for the PUMP load connection # 16 AWG or better connect the positive of the PUMP to the Orange Power lead. Similarly connect the negative of the PUMP to the Blue.

2.2 Input Power Connection

Using a wire of sufficient amperage for the input power (min. # 16 AWG) connect the positive of the solar panel to the Red terminal. Similarly, connect the negative of the solar panel (do this as the last connection) to the White Power Lead.

Application Notes

It is highly recommended a external fuse or over-temperature device be incorporated. This unit is quite capable of putting a continuous 15 amps into a stalled motor even from only 2 amps worth of solar panels, resulting in motor burnout and destruction of the unit. Motors do fail, a fuse will save the unit.

WARRANTY

The product is warranted to be free from defects in material and workmanship for a period of one (1) year from the date of purchase by a retail customer. The purchase date must be evidenced by a valid and original sales receipt. In lieu of sales receipt, factory will use code date on its label. Removal of the Solar Converters Inc. label or serial number will void the warranty.

Product liability, except where mandated by law, is limited to repair or replacement at the manufacturer's discretion. No specific claim of merchantability or use shall be assumed or implied beyond what is printed on the manufacturers printed literature. No liability shall exist from circumstances arising from the inability to use the product, or its inappropriateness for any specific purpose or actual use, or consequences thereof for any purpose. **It is the user's responsibility to determine the suitability of the product for any particular use.** Solar Converters Inc. shall not be liable for any damages or any kind including without limitation, special, incidental or consequential obligations and liabilities of Solar Converters Inc. and the remedies of Buyer set forth herein shall be Solar Converters Inc. sole and exclusive liability.

Failure to provide a safe and correct installation, safe operation, or care for the product will void the warranty. Personal safety, and compatibility with any other equipment is the ultimate responsibility of the end user. Any returned product that shows significant evidence of abuse may not be covered by this warranty. Installation must be performed by a person with qualification to insure safe and effective operation and the installation thereof certifies that the installer has the technical qualifications to do so.

Solar Converters Inc. cannot guarantee the compatibility of its products with other components used in conjunction with Solar Converters Inc. products, including, but not limited to, solar modules, batteries, and system interconnects, and such loads as inverters, transmitters and other loads which produce "noise" or electromagnetic interference, in excess of the levels to which Solar Converters Inc. products are compatible. Solar Converters Inc. shall not assume responsibility for any damages to any system components used in conjunction with Solar Converters Inc. products nor for claims for personal injury or property damage resulting from the use of Solar Converters Inc. products or the improper operation thereof or consequential damages arising from the products or use of the products.

The warranties set forth herein are Solar Converters Inc. sole and exclusive warranties for or relating to the goods. Seller neither makes nor assumes any warranty or merchantability, any warranty fitness for any particular purpose, or any other warranty of any kind, express, implied or statutory. Solar Converters Inc. neither assumes nor authorizes any person or entity to assume for it any other liability or obligation in connection with the sale or use of the goods, and there are no oral agreements or warranties collateral to or affecting the sale of the goods.

WARRANTY CLAIM PROCEDURE

In the event of product failure, follow this warranty claim procedure.

1. Make sure the problem you are having is actually due to the suspected product and not some other part of the system. You may call technical support for advanced troubleshooting assistance.
2. If you determine that a Solar Converters Inc. product is actually defective, describe on paper, in detail the exact nature of the failure.
3. The product must be accompanied by proof of the date of purchase satisfactory to Solar Converters Inc.
4. Return the product and description to the business office address, along with your address and a daytime phone number. Purchasers must prepay all delivery costs or shipping charges as well as any other charges encountered, in shipping any defective Solar Converters Inc. product under this warranty policy. **No shipment will be accepted Freight Collect.**
5. Any return shipment from Solar Converters Inc. will be via Canada Post. Foreign shipments will ship best way. Special shipping arrangements are available at the customer's expense.