



**Power-Tronics, Inc.** Electrical Power Control Systems

P.O. Box 291509 Kerrville, Texas USA 78029 Phone: 830.895.4700 Email: [pti@power-tronics.com](mailto:pti@power-tronics.com) Web: [www.power-tronics.com](http://www.power-tronics.com)

# XR125DC-10 Voltage Regulator



The XR125DC Voltage Regulator is designed for voltage control of 125vdc shunt wound electrical generators. The regulator features an automatic build up system and an internal voltage adjustment potentiometer. The XR125-10 is encapsulated to withstand high vibration and marine environments.

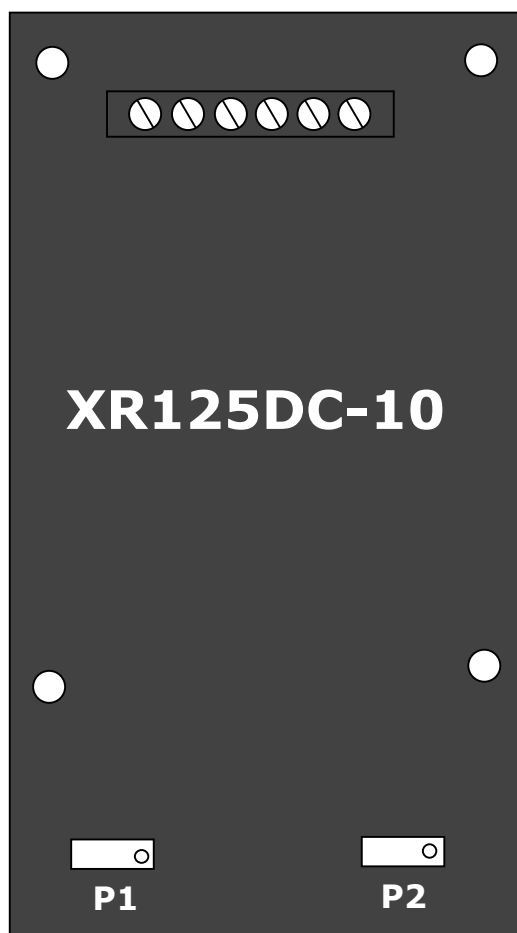
## **Specifications:**

Input Voltage:	125vdc
Output Voltage:	0-120vdc
Maximum Amperage:	10adc
Voltage Regulation:	+/- 1%
Physical Size:	7 x 4 x 2in.
Weight:	1.lb.

# Installation Instructions

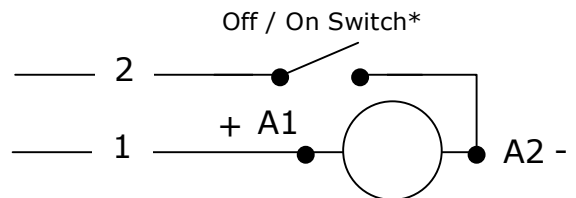
**Warning:** Be sure that there is over voltage and over amperage protection between the generator and load! Voltage regulators fail in one of three ways: No voltage, unstable voltage or high and uncontrollable voltage.

1. Install wiring as shown below.

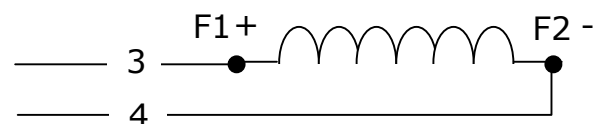


Internal  
Voltage Adjustment

**Warning!** Fuse the input at terminal #1 with a fuse rating of 125vdc, 15adc! Failure to do so could cause regulator failure!



\* Make sure that the switch is rated at 20 amps, 125vdc!



Do not adjust this potentiometer  
without first contacting  
Power-Tronics, Inc.

2. Adjust the generator speed to the desired rpm.
3. Adjust P1 to the desired dc output voltage.
4. Place the generator on line.
8. To shut down the generator, open the on/off switch.

**Special Note:**

P2 is factory adjusted to a pulse rate of 125pps. Turning P2 ccw will increase the pps up to 1000pps. Do not adjust this setting unless advised to by Power-Tronics, Inc.



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# PRODUCT WARRANTY

**Power-Tronics, Inc.**, assumes no liability for damages due to incorrect voltage or other voltage related damages resulting from either output of the generator or input to the generator exciter system. These problems should be protected with external devices provided by the customer such as **fuses, surge suppressors, over/under voltage and frequency controls.**

**Power-Tronics, Inc.**, warrants **only parts and workmanship** of this product for **a period of 2 years from the original date of purchase from Power-Tronics, Inc.** Under warranty, Power-Tronics, Inc. will replace, exchange or repair the defective product **without labor or parts cost to the customer.** Remaining warranty of the original product will be transferred to the replaced or repaired product. To obtain warranty, a copy of the original purchase receipt must be sent in with the defective product, which clearly shows the purchase date and serial number of the defective part. A repair request form must be sent in with the product before repairs will begin. You can obtain this form through contacting Power-Tronics, Inc.. Send repairs to: Power-Tronics, Inc., 2802 Cobbler Ln., Kerrville Texas USA 78028. Send in repairs only by UPS or FedEx.

**Any one of the following conditions will void the warranty:**

- ❖ Overheating of the power supply resistor on the printed circuit card.
- ❖ Overheating of the SCR, Mosfet or freewheeling diode.
- ❖ Physical damage to the printed circuit card, housing or components.
- ❖ Unauthorized repair or alteration of printed circuit card.
- ❖ Installation by anyone other than a qualified professional generator service technician.
- ❖ Conductive or corrosive contamination of the circuit card.
- ❖ Removal of our company identification from the product.
- ❖ Removal of any conformal coating of the printed circuit card or components.
- ❖ Overheating of foil on the printed circuit card.
- ❖ Inappropriate or infeasible application
- ❖ Use on any external device other than manufactured by Power-Tronics, Inc.

**No other warranty is expressed or implied.**