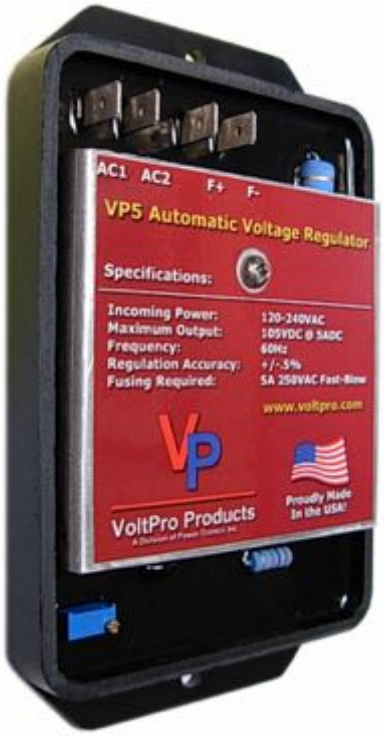
VoltPro Products

A Division of Power-Tronics, Inc.

Improving Life
Through Engineering



The VP5 is an affordable generator voltage regulator that is designed for the consumer market and can replace most voltage regulating systems on small portable generators and larger brushless generators up to 150kw.

The VP5 is manufactured with only high quality parts and every single regulator is vigorously tested both by static and real generator testing before final packaging.

The VP5 is specifically designed to be very simple to install. It has only 4 connections to make to the generator and only one simple voltage adjustment screw. There are no other controls because the regulator automatically matches itself to the generator.

The VP5 is totally encapsulated to withstand harsh vibration and environmental conditions. It is easily mounted with only 2 screws or other fasteners.

Specifications:

Input / Sensing Voltage	120 / 240vac
Maximum Continuous Output Amperage	5adc
Frequency	60hz
Regulation Accuracy	+/- .5%
Dimensions	5.5 x 3.25 x 1in
Weight	8oz
Customer Fusing Required	Fast Blow 5adc @ 250vac

Built in America

By Americans!

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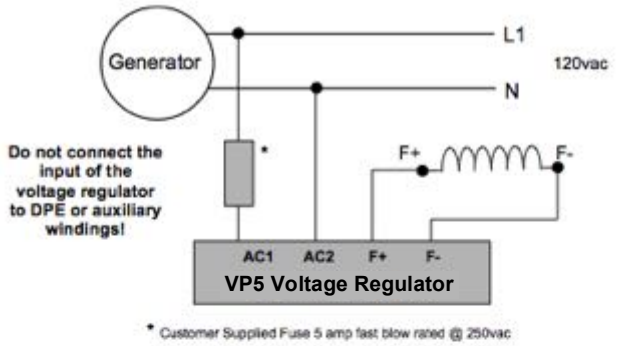
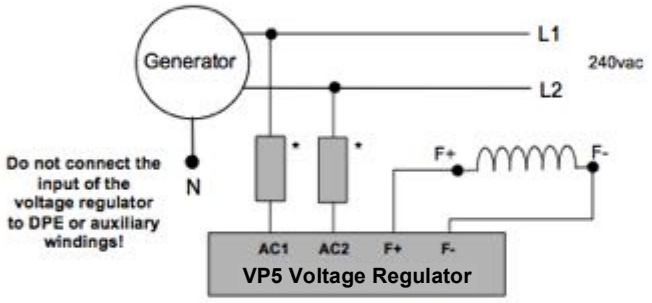
Warning: Do not use digital equipment to read voltage, Hz, or amperage during this installation. Use only analog sensing equipment! Failure to do so may result in damage to equipment or in personal injury! Make sure that all setup is done off line. Always wear eye protection and **Never** hold the regulator in your hand when energized!

Connection 1



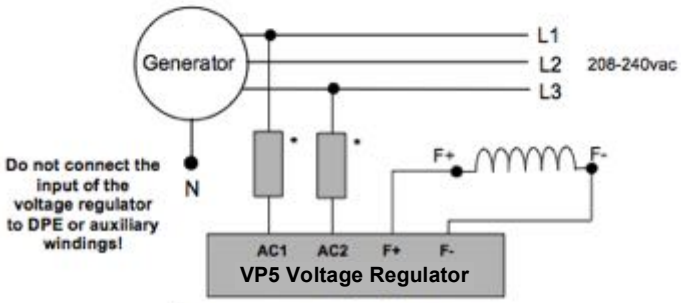
* Customer Supplied Fuse 5 amp fast blow rated @ 250vac

Connection 2



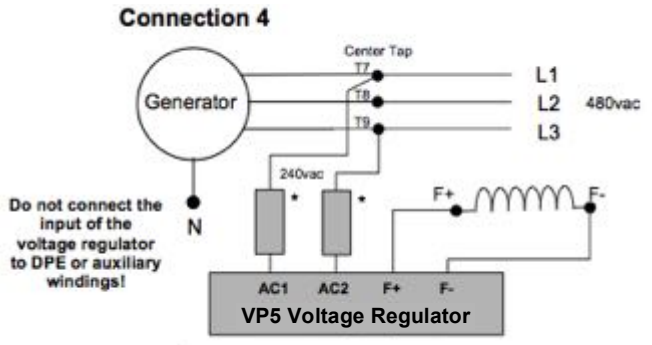
* Customer Supplied Fuse 5 amp fast blow rated @ 250vac

Connection 3



* Customer Supplied Fuse 5 amp fast blow rated @ 250vac

Connection 4

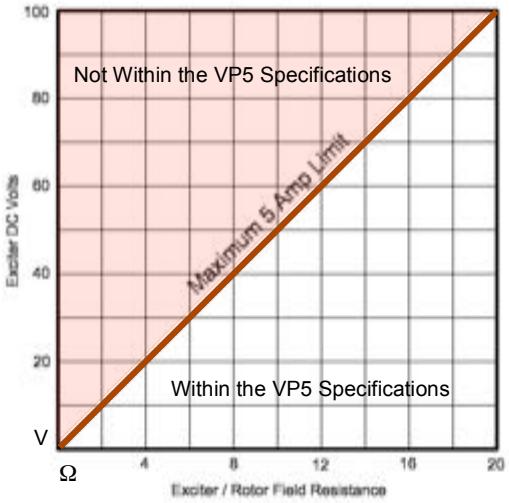


* Customer Supplied Fuse 5 amp fast blow rated @ 250vac

Installation Instructions:

After performing a complete check of the generator and removing the original voltage regulator, install the VP5 voltage regulator and follow the instructions below:

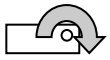
Use this chart to determine if the VP5 is the correct voltage regulator for your application.



Install the VP5 and wire it up as shown in the diagrams on this page. The 120vac connection 1 can only produce a maximum of 52vdc to the exciter field and should be used on low voltage exciters of 32vdc or less.

Connections 2, 3 and 4 can produce a maximum of 105vdc to the exciter field and can be used on most brushless generators and smaller portable generators with brushes and slip rings.

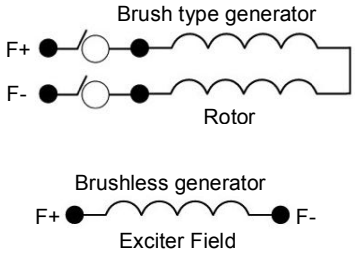
Start up the generator without load and bring up to design speed and adjust the AC voltage if needed. This regulator is set to 120vac from the factory and will need to be adjusted to a higher voltage on 208 or 240vac systems.



Voltage adjustment
Turn CW to Raise

Run the generator for a few minutes and observe for proper operation before adding load.

Exciter Connections



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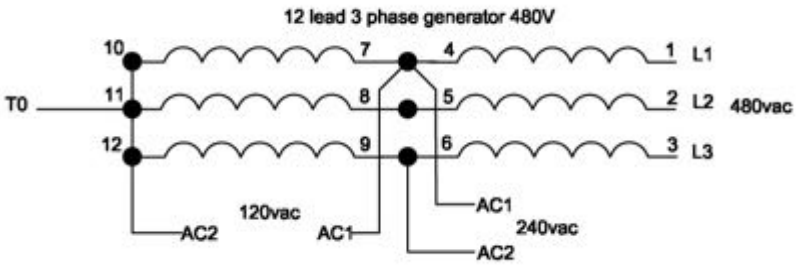

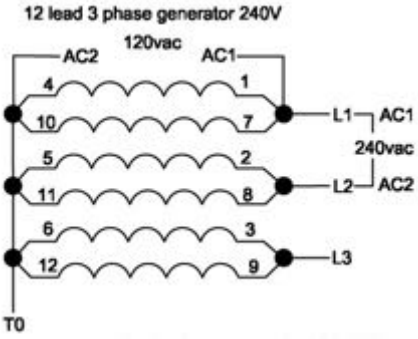

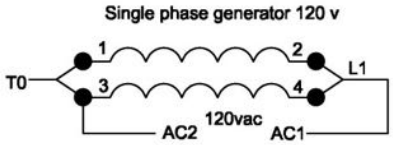

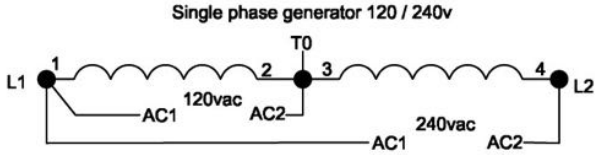

Warranty Disclaimer

Voltpro, a division of Power-Tronics, Inc, assumes no liability for damages, electrical or physical 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.

Because this product is fully encapsulated and it would be impossible to determine cause of failure, there is no warranty offered. We do certify that this product is manufactured with only the highest quality parts and is fully tested by both static testing and functionally tested on an electrical generator before final packaging.

This product should only be installed and maintained by a competent electrical generator technician.

Technical assistance for this product is only available through our web site http://www.voltpro.com . Voltpro does not allow returns or refunds, all sales are final.

No other warranty is expressed or implied.

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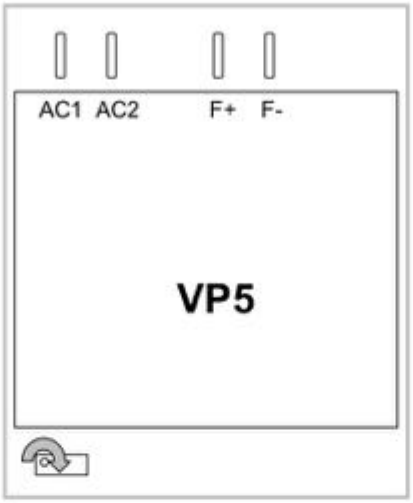

Voltage adjustment

Bench Check Procedures for the VP5.
Note: The voltage adjustment pot is a 25 turn device.

- Connect up the regulator wiring as shown.
- Turn the voltage adjustment fully CCW or until a click is heard.
- Connect an incandescent 50-150w 120vac light bulb across F+ and F-.
- Apply 120/240vac into the regulator at pins AC1 and AC2.
- When the power is applied to the regulator, the light bulb across F+ and F- should not be lit.
- Turn the voltage adjustment CW until the light comes on at half brilliance.
- Turn the voltage adjustment CCW until the light goes off.
- If all of these tests resulted as described, the regulator is good, if it did not, it is defective!

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