



PC1500BX Phase Control

The PC1500BX Phase Control is a 100amp complete Phase Control designed to replace older rotary, electronic and magnetic amplifier types of DC power supplies on resistive and inductive loads. Installation of the PC1500BX is a simplified process that involves only four main connections for installation. The PC1500BX is complete with fusing and snubber circuits.

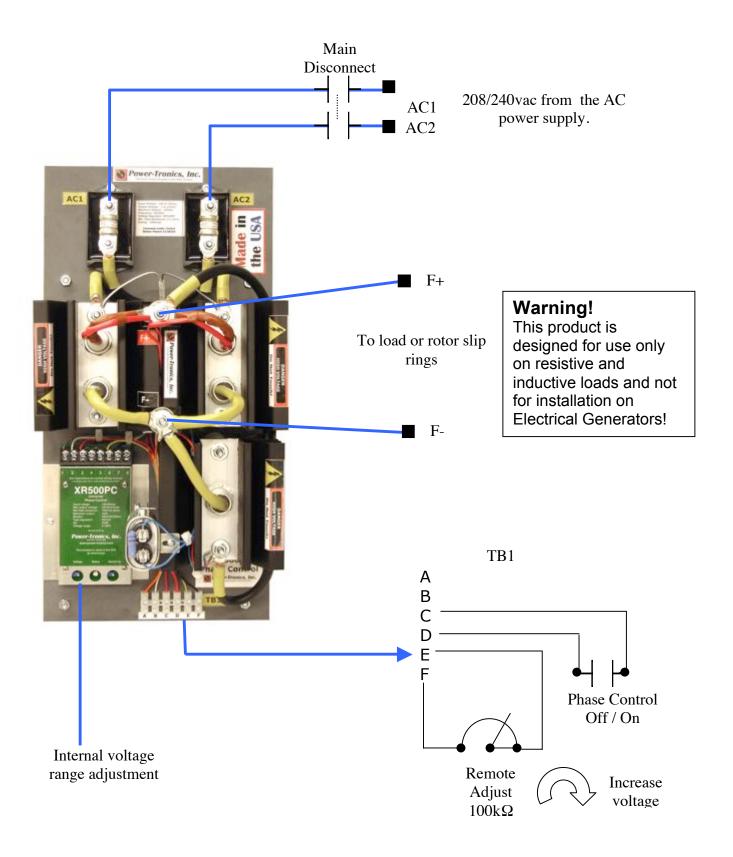
Specifications

Voltage Input	208/240vac 1ø
Output Voltage Range	. 75 to 210vdc
Maximum Output Amps	100adc
Minimum Field Resistance	2.10Ω
Operational Frequency	50/60hz
Maximum Burden	10.5kva
Internal Fusing	100 amps
Physical Size	10 x 20 x 8in
Weight	18 lbs

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Phase Control

XR500PC



Interconnection Diagram for the PC1500BX Phase Control

Installation Instructions

Installation of this product should be performed only by an experienced electrical service technician. Failure to do so could result in personal injury, damage to the electrical equipment and or to the phase control system. Follow all safety procedures while installing this system.

Special Note: Slip ring and brush problems are the most common problem when installing a replacement Phase Control. Many times, the failure of the system that is being replaced was caused by contact problems with the brushes and slip rings. Do not attempt to install this Phase Control on an application that has evidence of brush and ring problems.

- Check brushes and slip rings of the rotor. Make sure that the brush faces
 do not show signs of arcing, lines or groves, burned spots, pitting or rough
 surfaces.
- Inspect the slip rings for grooves, discolored areas, and pitted or rough areas and for surface trueness.
- Make sure that the brush springs are working and have the correct tension. Check the brushes for length.
- Connect up the PC1500BX as per the diagram included with this
 instruction sheet. It is recommended that a circuit breaker or manual
 disconnect is placed in the incoming ac power circuit to AC1 and
 AC2.
- Check all connections and make sure that the phase control is turned off and the main disconnect is open.
- Start up the load. Allow the unit to run for a few minutes to allow the brushes and slip rings to seat.
- Make sure that the external voltage control is turned fully counter clockwise and is at its least resistive value. Do not adjust the internal voltage range control!
- Close main disconnect and turn the phase control switch on.
- Adjust the external voltage control clockwise until the desired voltage setting is reached.
- Place the equipment on line and observe for proper operation.

Installation form

It is very important that you fill out this form completely when installing a voltage regulator. This form serves as a history record on the application. This form also contains the information needed by Power-Tronics, Inc., for repair and troubleshooting of any product you may be having problems with.

Product			Other options			
Serial Number						
Date of Installation						
Type of Motor				Model #		
	Brush type					
	Brushless	[]				
		AC State	r Information			
Wired for	Volts	Phase	Hz			
Motor Configuration: L	ead					
		Exciter/Ro	tor Information			
Exciter field resistance		Ω			@ F+ / F-	Ω
Exciter field volts		vdo			@ Slip Rings	Ω
		Description of problem	with product or	generator		
Your phone number			Name:			
Your fax number			Ship to Address	3:		
			Ship to City, State, Zip:			

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., warranties 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. Do not send in repairs by

U.S. mail.

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 or freewheeling diode.

Physical damage to the printed circuit card, housing or components.

Unauthorized repair or alteration of printed circuit card.

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.

❖ Installation by a non-professional electrical service technician.

Damage caused by excessive vibration.

❖ Use on any external device other than manufactured by Power-Tronics, Inc.

No other warranty is expressed or implied.

5