W2-series THYRISTOR POWER REGULATOR

Features

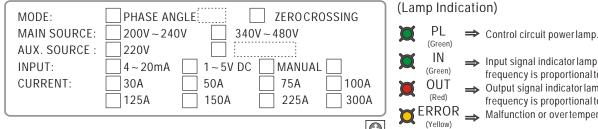
- The SCR unitattached with high speed Fuse in order to prevent the damage of SCR deu to the shortage current (di/dt).
- Patented efficient Heat Sink design with less dimension, easyfor installation and wiring.
- The causes of malfunction can be indicated by individual LED lamp, easy for trouble shooting.
- Less non-linearity output provides accurate control of Temperature.
- High quality and technical productions with no electrical interference.
- Option Constant Current Control is available for variable resistance load.

Control Mode & Output Wave



Control Mode	Output Wave						
- Control Wode	10% Output	50% Output	90% Output				
Phase Angle Control							
Zero Crossing Control	1 cycle ON & 9 cycles OFF	1 cycle ON & 1 cycle OFF	9 cycles ON & 1 cycle OFF				

Panel Description



Note) There is two adjustable VRs (BIAS & MAX) on left of Lamps. Our original settingfor the BIASVR & MAXVR as below: BIAS (Output adjustment of basic voltage) 6mA MAX (Max. Output adjustment) 0~100%

Input signal indicator lamp. LED operation frequency is proportional to input signal. Output signal indicator lamp, LED operation

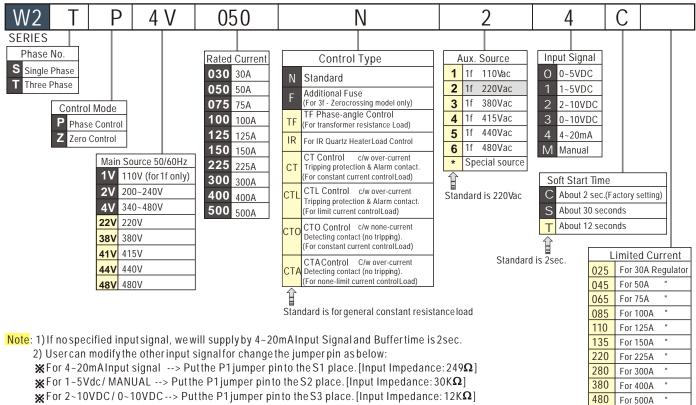
frequency is proportional to output signal. Malfunction or overtemperature indication.

For 500A

Ordering Guide

Please cogitate powerfluctuant rate and heater error, or order aggrandize a grade when make choice of purchase

Model No.



3) Please adjust the "MAX" VR for the input signal 2~10Vdc, 0~10Vdc to be about 50% output from the PCB.

Installation

- O The Power Regulator unit will produce heat itself during operation, please install it with upward erection.
- The unit must be upward ventilated for hot air. Mounting a cooling fan in the control panel are recommend.
- Don't install the unit in the space with high temperature and poor ventilating.
- O Don't operate the unit exceed 70% of rated output in case of poor ambient conditions. (Ideal ambient temperature is -10~45 C and Humidity under 90%)

Load Test

The SCR unit will not well functioned in case of less 0.6Amp of output load, please connect with the load at least 0.6Amp.

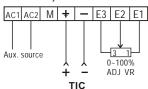
The magnetic switch must be installed for load output

Three Phase Main Source Main Source NFB NFB NFB NFB NFB Load

Main Circuit

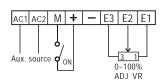
Wiring Examples

(1) Analog voltage, current input with external adjustable VR



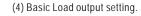
★ (Please short for E3 and E2 when external VR not be used)

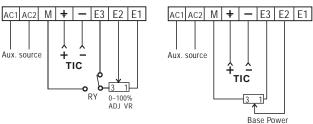
(2) Contact input with external adjustable VR



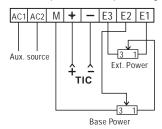
★ (The magnetic switch must be installed for Load output)



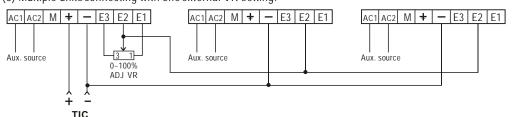




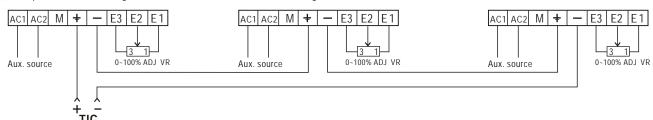
(5) Basic output & Max. Output setting.

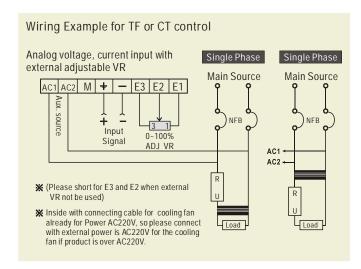


(6) Multiple units connecting with one external VR setting.



(7) Multiple units connecting with each individual external VR setting. ** (The connecting method is only suitable with installation for Max. 3 units.)





Dimensions & Weight

W2 - series	Single Phase				Three Phase			
Rated Current	Length /mm	Width /mm	Height /mm	Weight /kg	Length /mm	Width /mm	Height /mm	Weight /kg
30A	160	100	120	1.35	210	140	185	3.20
50A	200	100	120	1.60	250	140	185	3.80
75A	160	108	162	1.80	250	140	185	3.80
100A	230	108	162	2.50	250	140	185	3.90
125A	230	108	162	2.50	300	140	185	4.30
150A	230	108	162	2.50	300	140	185	4.50
225A	290	108	162	3.30	340	420	195	14.20
				•	340	280	195	11.60
300A	390	140	185	5.60	430	420	195	20.80
				•	430	280	195	14.00
400A	390	140	185	5.60	430	420	195	20.80
				•	430	280	195	14.00

• Weight and Dimension of (3 phase) Zero-crossing unit.