



SCR Power Regulator operation manual

Thanks for choosing Winpark products, TR series power regulator is an economical power regulator developed by Winpark. It uses microcomputer chip as control center and possesses function like multi-digital filter circuit, less interference on the grid and automatic recovery.

- Support several mode of analog input:(0-5V, 0-10V, 0-20mA, 4-20mA)
- Support several mode of output: star, triangle wiring
- Strong anti-interference function and pass 1800V common-mode and differential-mode ground experiment
- Input broken alarm and Stop-Phase detection
- Combine trigger mode of pulse and optocoupler
- Support soft start, current limit and manual percentage output(not support current limit+ constant current control inductive load)

Attention

1. The controller should be installed on non-combustible materials such as metal. Otherwise there is a risk of fire.
2. The controller should be installed in a non-conductive dust, no explosive gas, no damaging insulation and no steam environment.
3. Don't drop screws, gaskets, etc. into the inside of the controller. Otherwise there is a risk of an explosion or fire.
4. Install in places where there is no severe vibration and shock. Place vertically mounted to facilitate ventilation.
5. When the controller is damaged or the wiring off, don't install it. Otherwise, there is risk of fire and

injury.

6. Wiring must be carried out by qualified personnel

Model Selection

TR-SCR- - - - -

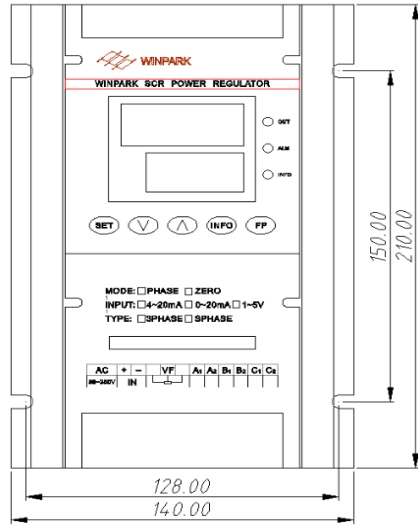
① ② ③ ④ ⑤

NO	Names	Description
①	Input Signal	0:0-20mA 1:0-10mA 2:4-20mA 3:0-5V 4:0-10V 5:1-5V
②	Current Value	C030: 30A C050: 50A C070: 70A C090: 90A C110: 110A C150: 150A C175: 175A
③	Mode of control	0: Three-Phase Phase-Shift (without midline) 1: Three-Phase Zero-Cross (without midline) 2: Three-Phase Phase-Shift (with midline) 3: Three-Phase Zero-Cross (with midline)
④	Fuse	0: require external fuse 1: standard fuse
⑤	Phase	P1: single-phase P2: two-phase P3: three-phase

Specification Sheet

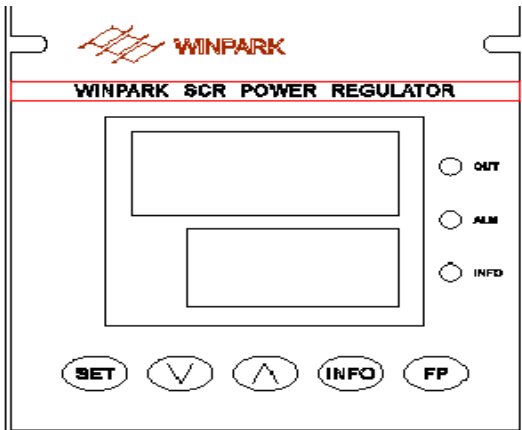
Current	Load Power (KW)		Case Size (mm)			Weight-kg	Cooling Method
	220V	380V	L	W	H		
30A	10	10	210	140	200	5	Forced air cooling
50A	17	17	210	140	200	5	Forced air cooling
70A	23	23	210	140	200	5	Forced air cooling
90A	30	30	210	140	200	5	Forced air cooling
110A	36	36	210	140	200	5	Forced air cooling
150A	50	50	210	140	200	5	Forced air cooling
175A	58	58	330	120	180	8	Forced air cooling

□ Appearance and fixed size



□ Operation Panel Explanation

OUT Indicator: Output Indicator



ALM Indicator: Alarm Indicator

1. Upper display input percentage
2. Lower Display power limit value
3. Press SET key once to adjust manual output value, press ^ or V key to plus or minus value.
4. Press FP key once to adjust output limit value, press ^ or V key to plus or minus value press FP key to save changes.
5. INFO key just invalid for now (back up key)

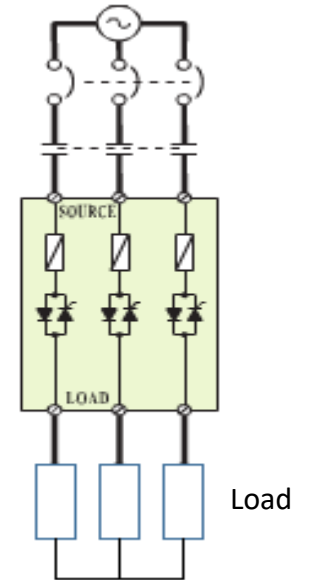
□ Wiring Diagram

Support star type without midline and triangle type wiring

AC Fan	L	N	IN+	IN-	Potentiometer
	AC 85-265		4-20mA/0-10V		R 10K (5%)

Note: R10K is potentiometer limit

If application is 4-20mA, please parallel one power resistance in IN+ and IN-
Power Resistance specification: 250Ω, accuracy 1/1000, Default 4-20mA



This model only used to control Pure resistive load

□ Display Menu

ER1	No input signal
ER2	Stop-Phase detection
E000	Manual Output Value
F100	Output Value Limit

Press SET key 3sec to next level menu

A000	A-Phase limit value (Reserved Parameter, invalid for now)	
B000	B-Phase limit value (Reserved Parameter, invalid for now)	
C000	C-Phase limit value (Reserved Parameter, invalid for now)	
T-00	Soft Start time, output value increased every 0.1s*t time	
P-N1	0: Three-Phase with midline	1: Three-Phase without midline
P-N2	0: 4-20mA	1: 0-10V