

1



**GVDR 50-120A**



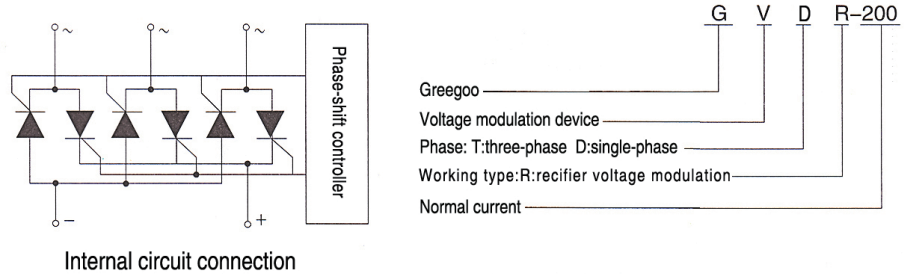
**GVDR 200-800A**

**GVDR series single phase rectifier module with phase-shift voltage regulating controller**

**1. Introduction**

This product is a multi-functional power module, which integrates thyristor power circuit, SCM-control phase-shift trigger circuit, signals detects and transfer circuit, voltage modulation circuit. It can realize the precise control of the voltage of the load. With built-in linear control circuit, it is highly precise and stabilized. Rated current: 50-500A, rated voltage: 220V, 380V. It is widely used in all kinds of induction and impedance loads, for instance: DC motor, transformer, temperature control, light change, DC voltage modulation.

**2. Internal connection, classification and name**



**3. Main technical standards(GVDR-50;70;120;200;250;350;500)**

Function	Thyristor AC single-phase commutation
Input voltage	220V±20% 380V±20%
Power source	2%
Controlling voltage	0-10VDC (input resistance 10K )
Controlling current	4-20mA (input resistance 330 )
Hand-control potentiometer resistance	10KΩ
Colling method	Wind-colling radiator, wind speed≥6m/s
Ambient temperature	-30~+40°C
Output voltage	0-513DVC

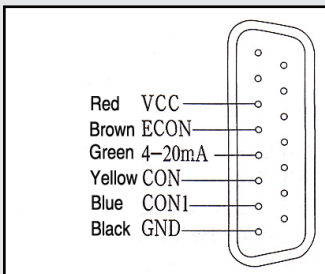
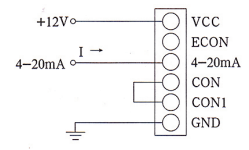
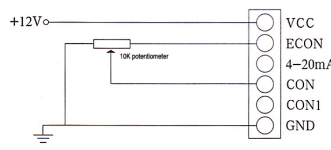
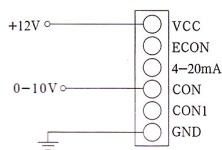
**Main circuit parameter**

Parameter	Unit	Value							
		50	70	100	120	200	250	350	500
Load current	Arms								
Voltage of resistance thyristor	Vpk	800—1200							
Frequency	Hz	50-60							
Off state voltage rising rate	V/sec	500							
On state voltage rising rate	A/sec	100							
Off state leakage current	mArms	≤8	≤10	≤10	≤10	≤10	≤15	≤15	≤20
On state leakage current	Vrms	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8
Voltage drop insulating voltage	Vrms	≥2500							
Weight	Kg	0.425				2.2			

**4. Exterior and installation dimensions**

Connections of control lines (50-120A module)

■ 10V voltage control ■ 10K potentiometer control ■ 4-20mA control



Remarks:the interfaces of 200A—500A modules:VCC(red)、CON1 (blue)、Econ(orange)、CON(yellow)、4-20mA (green) GND (black) others are blank See the right map connections is the same as above.