

# Ultra small size

## Thyristor Power Regulator



**NEW**

25 A / 35 A



Reduced size

TPR-2N → TPR-2M

### TPR-2M

#### Slim type

Thyristor power regulator 25 A ~ 200 A



#### Regular type

Thyristor power regulator 25 A ~ 1000 A



# Single phase thyristor power regulator

# TPR-2M

- Various control methods are realized according to the load
- Various protection functions (Heater Break, Overcurrent, Overheating of heat sink, Short circuit of SCR etc.)
- Improved safety by separation of power supply of circuit and power supply of load (Application of Free Voltage)
- Soft start (60 sec), Soft up/down (15 sec)

## 【 Suffix code 】

Model	Code	Description
TPR-2M	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Ultra slim type single phase thyristor power regulator
Type	E	Economical
	S	Advanced model
Rated current	25	25 A
	35	35 A
Power supply voltage	L	100 – 240 V a.c.
	H	100 – 440 V a.c. (*Only for advanced model)
Control input (Option)	C	4 – 20 mA d.c.
	V	1 – 5 V d.c.
	O	ON/OFF
		Economical : Basic packages Advanced model : Option



\* For circuit input power, please connect 100 – 240 V AC separately. (Low voltage : 100 – 240 V a.c. / High voltage : 24 V d.c.)

## 【 Specification 】

Model	Economical		Advanced model	
	Low voltage		Low voltage	High voltage
	TPR-2ME25L	TPR-2ME35L	TPR-2MS25L	TPR-2MS35L
Power supply voltage	100 – 240 V a.c.			100 – 440 V a.c.
Circuit input power	100 – 240 V a.c. 6 W			24 V d.c. 6 W
Power frequency	50 / 60 Hz (Dual usage)			
Rated current	25 A / 35 A			
Control input	Current input	4 – 20 mA d.c. (Impedance : 100 Ω) (Basic packages)	4 – 20 mA d.c. (Impedance : 100 Ω) (Option)	
	Voltage input	0 – 5 V d.c (Basic packages)	1 – 5 V d.c. (Option)	
	Voltage input	ON/OFF (Basic packages)	ON/OFF (Option)	
	External V.R	External V.R (10 kΩ)	-	
Control method	Phase control (Basic), Variable cycle control (Order made)			
Start type	SOFT START (60 sec), SOFT UP/DOWN (15 sec) / Adjust start time by SOFT V.R			
Output voltage	More than 98 % of the power supply voltage ( In case of maximum current input ) / Output limitation control by Power V.R			
Alarm function	Current error (CE)	-	○ (Relay contact output)	
	Over temperature (OT)	-		
	Power error / Heater break(PE)	○		
	SCR short (PE)	-		
Display method (LED)	Output	FIRE : Lighting in proportion of output		
	Power	Light on when power connect to circuit	-	
	Alarm	-	CE (CURRENT ERROR) : Light on when 45 A over current	
		-	OT (OVER TEMP) : Light on when Heat sink temperature is above 85 °C	
		PE (POWER ERROR) : Power error, Heater break		
Cooling method	Natural cooling			
Weight	322 g			

## 【 Dimension 】

[unit : mm]

