

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	☐ ☐ ☐	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

※ 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		High voltage	
		TPR-2ME25L		TPR-2MS25H	
		TPR-2ME35L		TPR-2MS35H	
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]

