Power Controller

TPA Series

High-Performance Power Controller

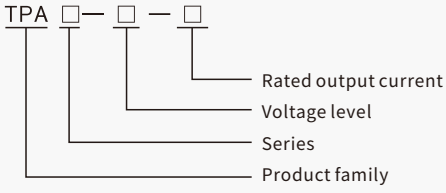
Usages

The TPA Series is mainly used in industrial electric furnaces, mechanical equipment, glass industry, crystal growth, automotive industry, chemical industry and other fields.

Features

- 32-bit high-speed DSP full digital control, advanced control algorithms, good stability, high control accuracy
- AC sampling and true RMS detection technology to realize active power control and accurately control the load power
- With a variety of control methods, flexible choice
- LCD liquid crystal display interface, Chinese and English display, convenient for data monitoring, convenient and easy to operate
- Narrow body design, low lateral space requirements, wall-mounted installation
- Standard configuration RS485 communication interface, support Modbus RTU communication, extendable to Profitbus-DP and Profinet communication

Definitions



Model NO.	Rated current(A)	Dimension (mm) (H×W×L)	Weight(kg)	Cooling method
TPA10-□-025	25	300 × 82 × 235	5	Self-cooling
TPA10-□-040	40			
TPA10-□-075	75			
TPA10-□-100	100			
TPA10-□-150	150	320 × 82 × 235	5.5	Air-cooling
TPA10-□-200	200	350 × 137 × 255	9.5	
TPA10-□-250	250			
TPA10-□-300	300		10	
TPA10-□-350	350			
TPA10-□-400	400			
TPA10-□-500	500			
TPA10-□-600	600	410 × 155 × 265	14	
TPA10-□-700	700			

Specifications

Input	
Main circuit power	A:50 ~ 265VAC B:250 ~ 500VAC C:10 ~ 50VAC
Control power	AC 85V ~ 265V，20W，50/60Hz
Fan power	AC230V, 50/60Hz
Output	
Output voltage	0%-98% of main voltage (phase shifted)
Rated current	25-700A
Performance indications	
Control accuracy	0.2%
Stability	⩽ 0.1%

Control features	
Operating mode	Phase-shift triggering, power-adjusting cycle, power-adjusting variable-cycle, Adjustable modulation start& stop.
Control method	α, U,I,U^2,I^2,P
Control signal	Analog, digital, communication
Load type	Resistive load, inductive load
Interface description	
AI	1 channel (DC 4mA~20mA/DC OV~5V/DC OV~10V)
DI	3 channels open
DO	1 channel open