

## TPA 系列单相功率控制器

### TPA series single phase power controller



#### 产品用途 Application

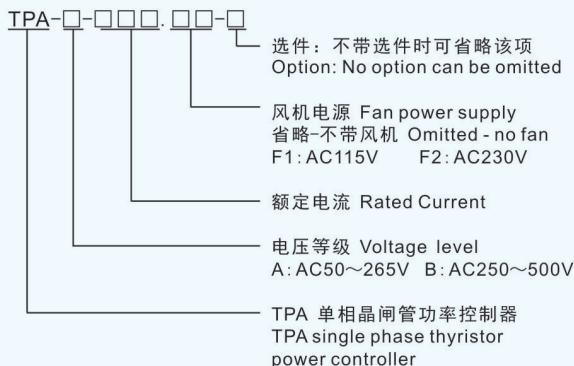
产品主要应用于工业电炉、机械设备、玻璃工业、晶体生长、汽车工业、化学工业等行业领域。

Products are mainly used in industrial furnace, mechanical equipment, glass industry, crystal growth, automobile industry, chemical industry and other industries.

#### 产品特点 Features

- 采用32位高速DSP，全数字化控制，先进的控制算法，稳定性好，控制精度高
- 采用交流采样及真有效值检测技术，实现有功功率控制，准确控制负载功率
- 具备多种控制方式，灵活选择
- LCD液晶显示界面，中、英文显示，方便数据监控，操作方便简洁
- 窄体设计，横向空间要求低，壁挂式安装
- 标准配置RS485通讯接口，支持Profibus-DP通讯
- Using 32bit high speed DSP, advanced control algorithm, good stability, high control precision
- AC sampling and true effective value detection technology to achieve active power control and accurately control load power
- With a variety of control methods, can be selected flexibly
- LCD interface, displayed in Chinese or English, convenient data observation, easy and simple operation
- Narrow body design, low requirement of horizontal space, wall mounted
- Standard RS485 communication interface, support Profibus-DP communication

## 型号定义 Model Definition



型号 Model	额定电流(A) Rated current	外形尺寸 (mm) Dimensions (L×W×D)	重量(kg) Weight	冷却方式 Cooling mode	
TPA-□-025	25	300×82×235	5	自冷 Natural cooled	
TPA-□-040	40				
TPA-□-075	75				
TPA-□-100	100				
TPA-□-150	150	320×82×235	5.5	风冷 Fan cooled	
TPA-□-200	200	350×137×255	9.5		
TPA-□-250	250				
TPA-□-300	300				
TPA-□-350	350		10		
TPA-□-400	400				
TPA-□-500	500				
TPA-□-600	600				
TPA-□-700	700	411×155×265	14		

## 规格参数 Specification Parameter

输入	
主回路电源	A: AC 50~265V, 45~65Hz B: AC 250~500V, 45~65Hz
控制电源	AC 85~265V, 20W
风机电源	AC115V、AC230V, 50/60Hz
输出	
额定电压	主回路电源电压的0~98% (移相控制)
额定电流	见型号定义
运行模式	移相触发、调功定周期、调功变周期、调功软起软停
控制方式	a、U、I、U <sup>2</sup> 、I <sup>2</sup> 、P
控制信号	模拟、数字、通讯
负载性质	阻性负载、感性负载
性能指标	
控制精度	0.2%
稳定性	≤ 0.1%
接口描述	
模拟输入	1路 (DC 4~20mA/DC 0~5V/DC 0~10V)
开关输入	2路常开
开关输出	1路常开
通讯	标准配置：RS485通讯接口，支持Modbus通讯 选件：支持Profibus-DP通讯

Input	
Main circuit power supply	A: AC 50~265V, 45~65Hz B: AC 250~500V, 45~65Hz
Control power supply	AC 85~265V, 20W
Fan power supply	AC115V、AC230V, 50/60Hz
Output	
Rated voltage	0 ~ 98% of main circuit supply voltage (phase shift control)
Rated current	See model definition
Operation mode	Phase shift trigger, the power regulating fixed period, the power regulating variable period, the power regulating soft start and stop
Control mode	a、U、I、U <sup>2</sup> 、I <sup>2</sup> 、P
Control signal	Analog, digital, communication
Load characteristics	Resistive load, inductive load
Performance index	
Control accuracy	0.2%
Stability	≤ 0.1%
Interface Description	
Analog input	1 port (DC 4~20mA/DC 0~5V/DC 0~10V)
Binary input	2 ports normally open
Binary output	1 port normally open
Communication	Standard configuration: RS485 communication interface, support Modbus communication; Options: support Profibus-DP communication

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