

# ATC1500 系列测试系统

ATC1500 Series Test System



## 产品简介 Product renderings

ATC1500 系列测试系统，将电子负载、功率计、AC 源、示波器等完全模块化放入一个机箱，测试速度快、精确度高！

适用于生产线的自动化测试，双机测试，效率高。测试结果可迅速成电子表格，同时自动产生与 CPK 值及品质报表，为研发及品质人员提供了快与准的测试数据！

## 应用范围 Scope of application

可以测试 150W 以内任何单组输出电源、充电器、适配器，LED 驱动电源

### ■ 测试项目：

开机时间、上升时间、输入电压、输入电流、输入功率、功率因数、输出电压、输出电流、输出功率、效率、纹波、噪音、THD、平均效率、过流、过压、动态负载、线性调整、负载调整、IV 曲线、关机时间、下降时间、放电。

## 功能优点 Functional advantages

- ◆ 可以测试 150W 以内任何单组输出电源、充电器、适配器，LED 驱动电源
- ◆ 图形界面基于 Windows 环境
- ◆ 测试程序编辑功能
- ◆ 测试项目选择功能（输入/输出/空载/短路
- ◆ 欠压/稳压/过载/纹波/效率等功能）
- ◆ 统计测试报告（Excel 电子档）
- ◆ 自动生成 CPK、数据分布图等品质报表
- ◆ 配置灵活
- ◆ 性价比高，适合大中小企业
- ◆ 测试速度快
- ◆ 测试不良结果实时打印功能

## 产品参数 Product parameter

Test Name	Parameter and Range	Accuracy
启动测试 START UP	Inrush current: 0 – 83A Startup time: 0 to 65 sec. Output voltage overshoot: 0 – 60V	±2% (reading + range) ±1ms ±1% (reading + range)
欠压测试 UVLO	Functional test only, Pass/Fail	N/A
待机测试 IDLE	Standby input power: 0 – 100W Standby input current: 0 – 10A Input voltage: 30 – 280V	±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range)
恒流 STANDARD CV	CC Mode: 0 – 15A CR Mode: 0.1 – 50Ohm Input voltage: 30 – 280V Input Current: 0 – 10A Input Power: 0 – 200 W Power Factor 0 – 1.0 Output Voltage 0 – 60V Output Current 0 – 15A Efficiency: 0 – 100% Ripple/Noise 200kHz: 0 – 500mV Ripple/Noise 20MHz: 0 – 500mV	±0.2% (reading + range) ±0.4% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.05% (reading + range) ±0.1% (reading + range) ±0.25% (reading + range) ±2% (reading + 5mV) ±2% (reading + 5mV)
恒压 STANDARD CC	CV Mode: 0 – 60V CR Mode: 0.1 – 50Ohm Input voltage: 30 – 280V Input Current: 0 – 10A Input Power: 0 – 200 W Power Factor 0 – 1.0 Output Voltage 0 – 60V Output Current 0 – 15A Efficiency: 0 – 100%	±0.1% (reading + range) ±0.3% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.05% (reading + range) ±0.1% (reading + range) ±0.25% (reading + range)
短路测试 SHORT CIRCUIT	Input voltage: 30 – 280V Input Current: 0 – 10A Input Power: 0 – 200 W Power Factor 0 – 1.0 Output Average Current: 0 – 15A	±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.2% (reading + range) *For steady current
过流 OVER CURRENT	Current trip point: 0 – 15A Trip point voltage: 0 – 60V	±1% (reading + range)+(step size) ±1% (reading + range)

过压测试 OVER VOLTAGE	OV trip point: 0 – 60V	±1% (reading + range)
线性调整率 LINE REGULATION	Voltage regulation: 0 – 100%	±0.1% (reading + range)
负载调整率 LOAD REGULATION	Voltage regulation: 0 – 100%	±0.1% (reading + range)
关机测试 POWER DOWN	Holdup time: 0 – 65 sec. Input voltage: 0 – 280V Output current: 0 – 15A Output voltage overshoot: 0 – 60V	±1ms ±0.1% (reading + range) ±0.1% (reading + range) ±1% (reading + range)
Global Setting 总体设定	Load On Voltage: 0 – 60V Wait Time: 0 – 32767 sec. Nominal Output Voltage: 0-60V Nominal Output Current: 0-15A	±1% (reading + range) ±1ms ±1% (reading + range) ±1% (reading + range)
支持性功能 Optional Setting	Bias Output Voltage : 0 – 28V Relay State rated current: 5A	±1% (reading + range) -

## 配置清单 Product configuration

序号 Number	配置明细 Configuration list	硬件名称 Number of the hardware	规格 Specifications
1		自动测试控制软件 X1	STS 自主研发
2		ATC150 主机 X4	每台主机含: 电子负载 (150W, 0-200V, 0-15A) / 功率计/示波器模块、AC 源
3		4 通道测试架 X1	左右智能转换
4		变频电源 X1	1000V
5		工业电脑 X1	研祥 EVOC
6		液晶显示器 X1	AOC 17 英寸
7		标准机柜 X1	尺寸: 600 x 800 x 1670mm, 总重量: 200Kg