

## ATC1500-S

### LED 驱动电源自动系统

ATC1500-S 适用于电源厂 **生产线测试使用**。

测试速度快，同时可迅速形成测试报表，有效的提高了工厂的品质控制能力。

### 介绍

适用：**150W 以下单路输出之充电器，电源适配器，LED 驱动电源！**

动电源！



(客户自备电脑+显示器)

#### 概述:

系统结构: 测试架 + ATC150 主机 (内含 150W 电子负载, 功率计模块, 示波器模块, AC 源)

尺寸: 500x450x133mm 总体重量: 20KG

#### 主要功能特点:

- 1.可以测试 150W 以内任何单组输出电源
- 2.图形界面基于 Windows XP 环境
- 3.测试程序编辑功能
- 4.测试项目选择功能 (输入/输出/空载/短路)



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- 5.欠压/稳压/过载/纹波/效率等功能)
- 6.统计测试报告 (Excel 电子档)
- 7.自动生成 CPK 等品质报表
- 8.配置灵活
- 9.性价比高, 适合大中小企业。
- 10.测试速度快
- 11.测试不良结果实时打印功能

### 测试项目:

- 启动测试(Start-up)
- 欠压测试(UVLO)
- 待机测试(Idle)
- 恒压区测试(Standard CV)
- 恒流区测试(Standard CC)
- LED 驱动电源测试 (LED)**
- 短路测试(Short Circuit)
- 过压测试(Over Voltage)
- 过流测试(Over Current)
- 线调整(Line Regulation)
- 负载调整(Load Regulation)
- 关机测试(Power Down)
- 支持性测试(Support Function)

Test Name	Parameter and Range(测试项目与量程)	Accuracy
START UP 启动测试	Inrush current: 0 – 83Apk Startup time: 0 to 32767msec. Output voltage overshoot: 0 – 60Vpk	±1% (reading + range) ±1ms ±1% (reading + range)
UVLO 欠压测试	Functional test only, Pass/Fail	N/A
IDLE 待机测试	Standby input power: 0 – 5/25/250/1250W Standby input current: 0 – 0.1/0.5/5/25Apk Input voltage: 30 – 280V* <sup>Note 2</sup>	±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range)



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STANDARD CV (Constant Current and Constant Resistance load) 恒流	CC Mode: 0 – 3/15 A CR Mode: 0.1 – 50Ohm Input Voltage: 30 – 300Vrms *Note 1 Input Current: 0 – 0.1/0.5/5/25Apk Input Power: 0 – 5/25/250/1250W Power Factor 0 – 1.0 Output Voltage 0 – 15/60Vdc Output Current 0 – 3/15Adc Efficiency: 0 – 100% Ripple/Noise 200kHz: 0 – 500mV Ripple/Noise 20MHz: 0 – 500mV	±0.15% (setting + range) ±0.3% (setting + range) *Note 2 ±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)
STANDARD CC (Constant Voltage and Constant Resistance load)恒压	CV Mode: 0 – 15/60V CR Mode: 0.1 – 50Ohm Input voltage: 30 – 300Vrms *Note 1 Input Current: 0 – 0.1/0.5/5/25Apk Input Power: 0 – 5/25/250/1250W Power Factor 0 – 1.0 Output Voltage 0 – 15/60Vdc Output Current 0 – 15Adc Efficiency: 0 – 100%	±0.15% (setting + range) ±0.3% (setting + range) *Note 3 ±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)
LED Driver Test (LED Load) LED 驱动	Input voltage: 30 – 300 Vrms *Note 1 Input Current: 0 – 5/25Apk Input Power: 0 – 250/1250W Power Factor 0 – 1.0 Output Average Current reading: 0 – 15Adc Output Average Voltage reading: 0 – 60Vdc Output pulsed current reading (TRIAC, PWM)	±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.1% (reading + range) *Note 4 ±0.05% (reading + range) *Note 4 ±0.5% (reading + range)
SHORT CIRCUIT 短路测试	Input voltage: 30 – 300 Vrms *Note 1 Input Current: 0 – 5/25Apk Input Power: 0 – 250/1250W Power Factor 0 – 1.0 Output Average Current: 0 – 15Adc	±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.2% (reading + range) *Note 4
OVER CURRENT 过流	Current trip point: 0 – 3/15Adc Trip point voltage: 0 – 15/60Vdc Wait Time >= 10msec. Wait Time < 10msec. Voltage Before Trip Point: 0 – 15/60Vdc Current Before Trip Point: 0 – 3/15Adc	±0.1% (reading + range) ±0.05% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range)
OVER VOLTAGE 过压测试	OV trip point: 0 – 60V	±0.1% (reading + range)



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LINE REGULATION 线性调整率	Voltage regulation: 0 – 100%	±0.1% (reading + range)
LOAD REGULATION 负载调整率	Voltage regulation: 0 – 100%	±0.1% (reading + range)
AVERAGE EFFICIENCY 平均效率	Efficiency: 0 – 100%	±0.25% (reading + range)
I-V CURVE PLOT I-V 曲线	CC Mode: 0 – 3/15 A CC Mode Output Voltage 0 – 15/60Vdc CC Mode Output Current 0 – 3/15Adc CV Mode: 0 – 15/60V CV Mode Output Voltage 0 – 15/60Vdc CV Mode Output Current 0 – 15Adc	±0.15% (setting + range) ±0.05% (reading + range) ±0.1% (reading + range) ±0.15% (setting + range) ±0.05% (reading + range) ±0.1% (reading + range)
POWER DOWN 关机测试	Holdup time: 0 – 65535 msec. Input voltage: 30 – 300Vrms *Note 1 Output Current 0 – 3/15Adc Output voltage overshoot: 0 – 60Vpk	±1ms ±0.1% (reading + range) ±0.1% (reading + range) ±1% (reading + range)
Global Setting	Load On Voltage: 0 – 60Vdc Wait Time: 0 – 32767msec. Nominal Output Voltage: 0 – 60Vdc Nominal Output Current: 0 – 15Adc	±1% (reading + range) ±1ms ±1% (reading + range) ±1% (reading + range)
Optional Setting 支持 性功能	Bias Output Voltage : 0 – 28Vdc Relay State rated current: 3A	±0.2% (reading + range) -

### STS 带给企业的优势

- 1.能有效地解决电源产品的功能测试，有效的排除了手工测试产生错误的可能性！
- 2.能将测试数据完整地形成电子表格，永久存档以便追溯。
- 3.有效地降低测试成本，为客户赢取更多订单！

详情请登入：<http://www.sts-ate.com>