

PC Power Supply ATS



PC POWER SUPPLY ATS MODEL 8010

Chroma 8010 PC Power Supply ATS is the test system of choice for PC power testing on the production line. Its test performance not only compares favorably with the Chroma 6000 ATS, but also has the flexibility of the Chroma 8000ATS hardware architecture. Available for selection are a range of hardware devices including AC/DC Power Supply, Electronic Load, Timing/Noise Analyzer, Power Meter and Extended Measurement Controller.

Chroma 8010 ATS was designed specifically with PC power supply characteristics in mind, with customized standard test items providing excellent test performance and optimized for mass production. The software provides a user friendly interface and intuitive controls suited for the production line.

New test items and expandable hardware allows the Chroma 8010 ATS to meet the new testing requirements in the PC power

industry such as 100 MHz bandwidth noise measurement, voltage monotonic rise test, average efficiency test to comply with ERA requirements and various other tests.

With the flexibility of the Chroma 8010 ATS architecture, future PC power supply testing requirements can be easily added. Chroma 8010 ATS software comes packaged with report generator, statistical analysis and management functions, allowing the creation of test and statistical reports to meet modern quality control and production requirements. For total control of the production flow, the 8010 ATS can be connected to the Shop-Floor System.

Chroma 8010 ATS software runs under the user friendly Windows 98/2000/NT/XP operating environment, providing the test engineer a dedicated PC power supply testing system with easy access to Windows resources.

MODEL 8010

Key Features :

- Equipped with both of the test performance of 6000 ATS and the flexible hardware architecture of 8000 ATS
- Provide optimized standard test items for the Unit Under Test (PC Power Supply) to deliver excellent test performance
- Easy-to-use software function specifically designed to meet the production line needs
- Flexible software platform with the following functions
 - User editable test program
 - User editable test report format
 - Test report generator
 - Statistical report
 - User authority control
 - Release control
 - Activity log
 - Support bar code reader
- New test items and expandable hardware allows the Chroma 8010 ATS to meet the new testing requirements in the PC power industry
 - 100MHz Noise measurement
 - Output voltage monotonic rise test
 - Average efficiency test that complies with EPA & 80Plus
- Windows 98/2000/NT/XP based software
- Offer the best performance/price ratio



Chroma

Optimized Test Items

Chroma 8010 ATS is equipped with optimized standard test items for PC Power Supply (the Unit Under Test), the user is only required to define the test conditions and specifications for the standard test items to perform the test.

The optimized test item covers 7 kinds of power supply test requirements. The OUTPUT PERFORMANCES verifies the output characteristics of the UUT. The INPUT CHARACTERISTIC checks the power supply input parameters. The REGULATION TESTS measures the UUT output stability for varying input power and loading conditions. TIMING & TRANSIENT tests the timing and transient states during power-on and power-off cycle. The PROTECTION TESTS trigger and tests the protection circuit, while SPECIAL TESTS AND SPECIAL FEATURES provide special functions and methods for testing power supply.

OUTPUT PERFORMANCES

1. DC Output Voltage
2. Peak-to-Peak Noise
3. RMS Noise
4. Efficiency
5. In-test Adjustment
6. Power Good (PG) Signal
7. Power Fail (PF) Signal
8. PS/ON Signal
9. Extended Measure
10. Overshoot Voltage

INPUT CHARACTERISTICS

11. Input Inrush Current
12. Input RMS Current
13. Input Power
14. Input Power Factor
15. Input Voltage Ramp
16. Input Frequency Ramp
17. AC Cycle Drop Out

REGULATION TESTS

18. Line Regulation
19. Load Regulation
20. Combine Regulation
21. Dynamic Load Regulation
22. Sync.Dynamic Load Regulation

TIMING & TRANSIENT

23. Transient Spike
24. Power Up Sequence
25. Rise Time
26. Fall Time
27. Power Off Time
28. Extended Measure

PROTECTION TESTS

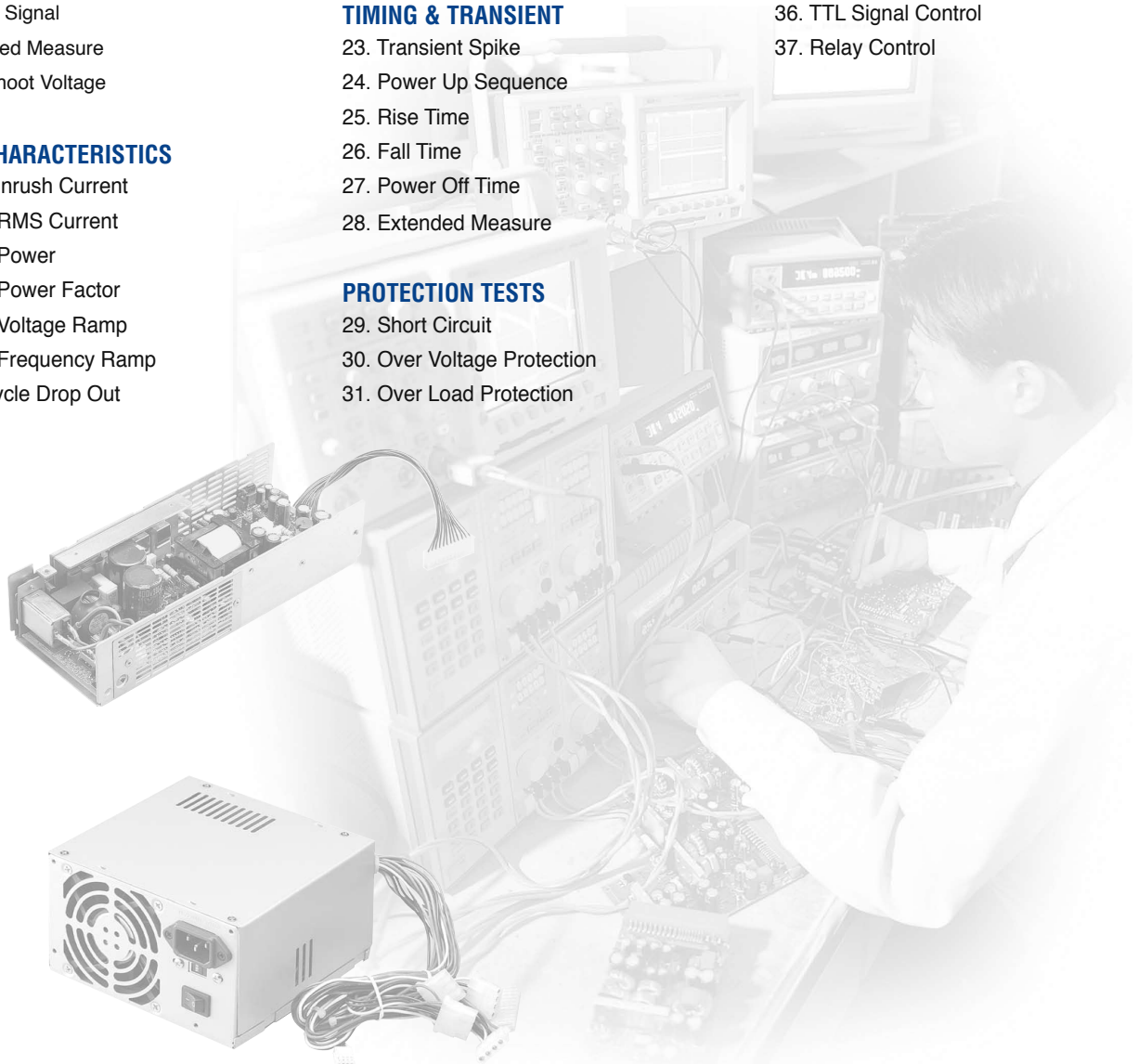
29. Short Circuit
30. Over Voltage Protection
31. Over Load Protection

SPECIAL TESTS

32. Voltage Monotonic Test
33. 100MHz Bandwidth Noise Test
34. Average Efficiency Test
35. Power On/Off Cycle Test

SPECIAL FEATURE

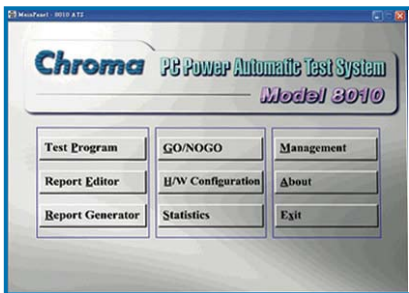
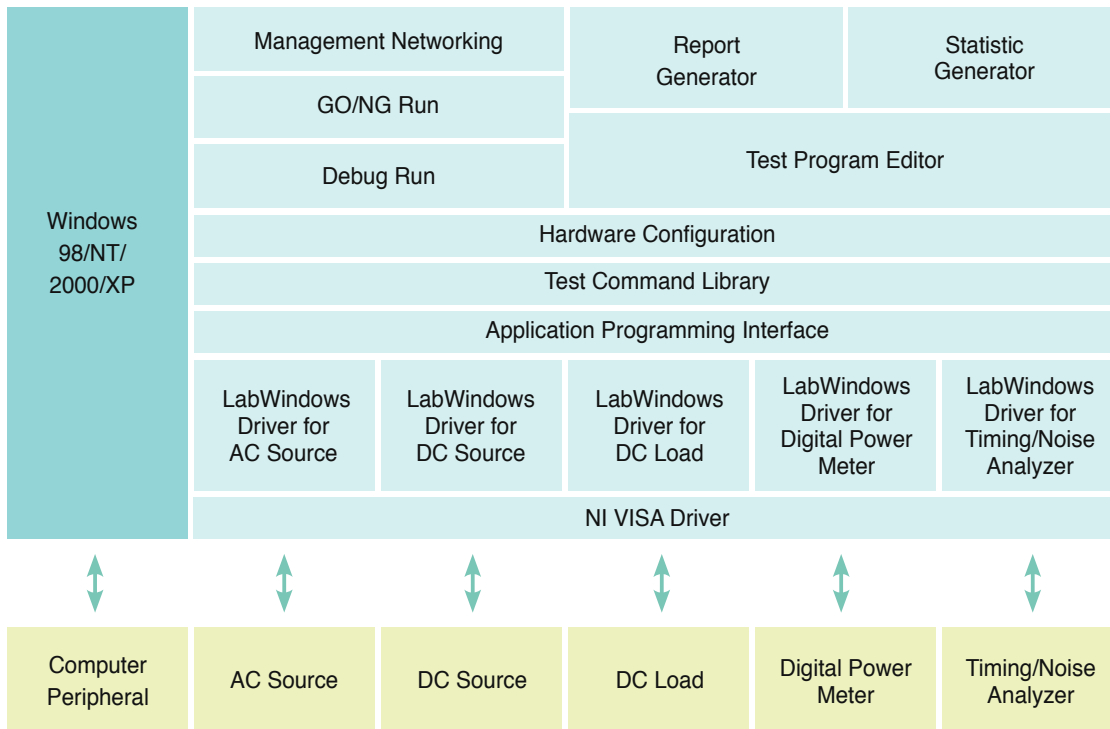
36. TTL Signal Control
37. Relay Control



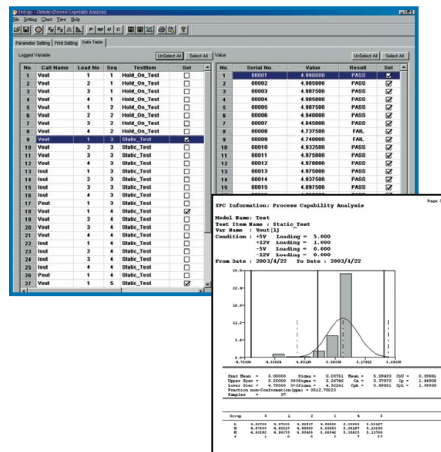
Software Platform of ATS

The software platform of Chroma 8010 ATS is specifically designed to meet the requirements of production line with intuitive software control.

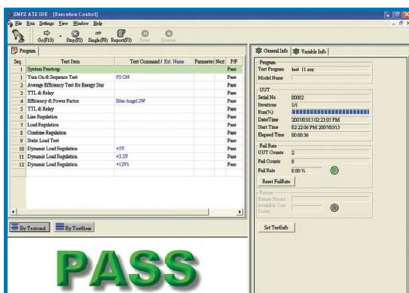
Chroma 8010 ATS operates under Windows 98/2000/NT/XP environment providing necessary support to the linked devices.



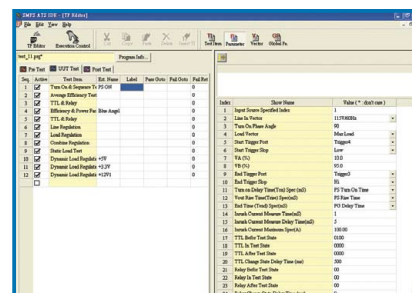
Main Screen



Statistical Report

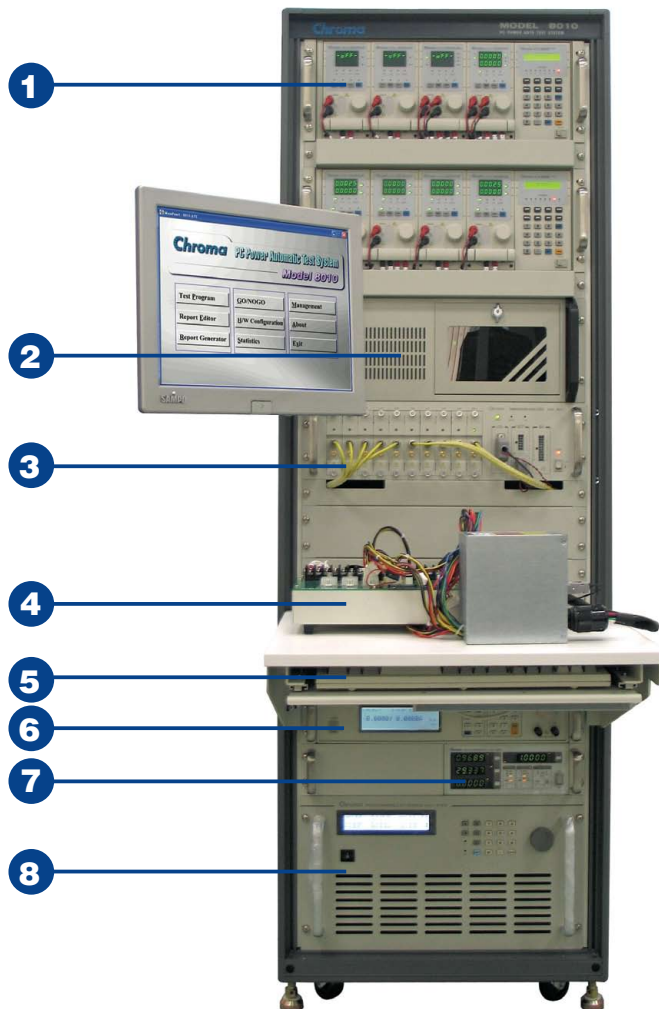


Running GO/NGO



Test Program Editing

High Performance Equipment



1. **DC Electronic Load :**
Chroma 6330 Series
2. **System Controller :**
Industrial PC
3. **Timing/Noise Analyzer :**
Chroma 6011+80611N
4. **Test Fixture :**
Chroma A600011/A800027
5. **Extended Controller :**
Chroma 8126
6. **DC Power Supply :**
Chroma 6200, 6200F, 62000P Series
7. **Digital Power Meter :**
Chroma 66200 Series
8. **AC Power Source :**
Chroma 6500/61500/61600 Series

Ordering Information

8010 : PC Power Supply ATS
6011 : Timing/Noise Analyzer
80611N : Timing/Noise module
8126 : Extended Controller
5004ATM : System Controller
A600011/ A800027 : Test Fixture
A800004 : 19" Rack

A800035 : Monotonic Rise Detector
DC Electronic Load : Refer to Model 6330 Series
Digital Power Meter : Refer to Model 66200 Series
AC Source : Refer to Model 6500, 61500, 61600 Series
DC Source : Refer to Model 6200, 6200F, 62000P Series
100MHz Digitizer : NI 5112 Digitizer

Developed and Manufactured by :

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致茂電子股份有限公司

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