Adapter/Charger ATS   Model 8020

20U

USB GPIB RS-232 CE PFC

New test items and extended hardware are expanded to Chroma 8020 ATS for the new test requirements in the Adapter/Charger industry, such as average efficiency to comply with Energy Star requirement, and etc.

Chroma 8020 ATS runs under the easy-to-learn Windows 98/2000/NT/XP/7 environment with a specialized power test system for test engineers so that they can utilize the Windows resources easily.

KEY FEATURES

■ Be able to test multiple UUTs concurrently that improve productivity significantly
■ 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 (adapter/charger) to deliver excellent test performance
■ Easy-to-use software function specially designed to meet the production line needs
■ Flexible software platform with the following functions
   - Test Program editor
   - Test Report format editor
   - Test Report Generator
   - Statistics Analysis Report editor
   - User level setting
   - Release control
   - Activity log
   - Supporting bar code reader
■ New test items and extended hardware are able to expand to fulfill the new requirements for adapter/chcrger industry
   - Average efficiency test that complies with Energy Star
■ Rack specially designed more meet to the production line
■ Windows 98/2000/NT/XP/7 based software

Chroma 8020 Adapter/Charger ATS is the best test system for testing Adapter and Charger in the production line. 8020 is able to test multiple UUTs concurrently that improve productivity significantly, the hardware architecture is also as flexible as Chroma 8000 ATS. There are many hardware devices available for selection such as AC Power Supply, Electronic Load, Timing/Noise Analyzer and Power Meter.

Chroma 8020 has standard test items specially customized and optimized for the features of Adapter and Charger that provides excellent test performance to meet the requirements of mass production. Meanwhile, the software equipped is very friendly and easy to operate that is suitable for production line use.

OPTIMIZED TEST ITEMS
OUTPUT PERFORMANCES
1. DC output voltage
2. DC output current
3. DC output power
4. Peak-to-peak noise
5. RMS noise
6. Efficiency
7. In-test adjustment
8. Overshoot voltage

INPUT CHARACTERISTICS
9. Input inrush current
10. Input RMS current
11. Input power
12. Input power factor
13. AC cycle drop out
14. Input voltage ramp

REGULATION TESTS
15. Line regulation
16. Load regulation
17. Combine regulation
18. Dynamic load regulation
19. Sync. dynamic load regulation

TIMING AND TRANSIENT
20. Power up sequence
21. Rise time
22. Fall time
23. Power off time

PROTECTION TESTS
24. Short circuit
25. Over load protection
26. Over voltage protection

SPECIAL TESTS
27. Average efficiency test
28. ID Pin Singnal measurement
29. Quick Charge 2.0 Charger test
30. Pump Express Charger test
31. Type C USB PD test

SPECIAL FEATURE
32. TTL signal control
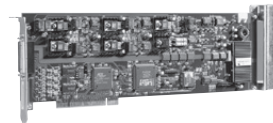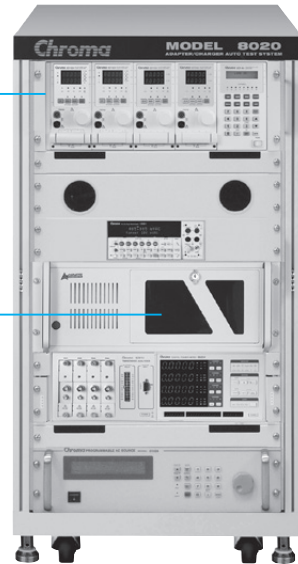33. Relay control

ORDERING INFORMATION
8020 : Adapter / Charger ATS
80611/80614 : Timing/Noise Analyzer
80611N : Timing/Noise Module
80617 : USB PD Tester
80617P : USB PD Emulator
84903 : Control Card
84904 : DMM Card
5004ATM : System Controller
A800004 : 19" Rack for Model 8020
A800068 : Digital Measurement Card
A802001 : 4+4 Multi-UUT Test Fixture
A806101/A806103 : 100 MHz HF MUX Module
A806102/A806104 : Digital Output Module
DC Load Module : Refer to Model 6330A, 63600 Series
Digital Power Meter : Refer to Model 66200 Series
AC Source : Refer to Model 6500, 61500, 61600 Series
I/O Card : ADLink 7230

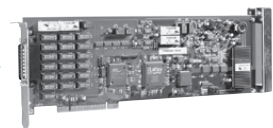* Please refer to Model 8000's specifications for detail instruments

A802001 : 4+4 Multi-UUT Test Fixture

The 63600 High Speed DC Electronic Load is applied to verify PUMP Express Charger.

The 84903 Control Card is applied to verify Quick Charge 2.0 charger.

The 84904 DMM Card is applied to measure the voltage of charger ID pin.