

Test solutions

ATE solutions for power supply manufacturers



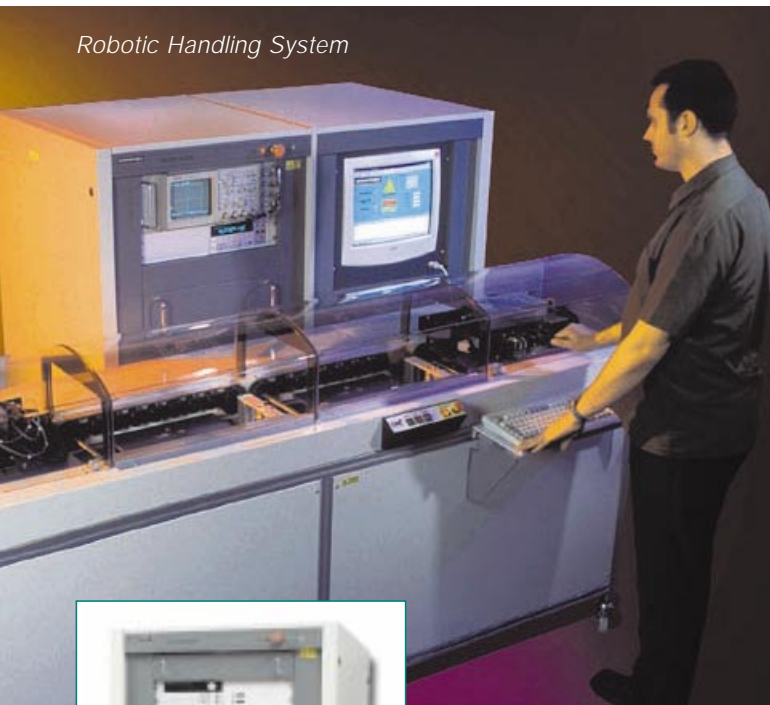
SCHAFFNER

ATE SYSTEMS

www.schaffner.com

Automatic Test Equipment (ATE) solutions for power supply manufacturers

Robotic Handling System



Intepro 9000 Single Bay Cabinet



Intepro 9000 Benchtop System

All over the world, power supply manufacturers choose Schaffner functional test systems and environmental stress screening systems to meet their design, manufacturing and quality control test needs.

Based on open architecture hardware and software, Schaffner test systems are tailored to the individual requirements of the customer, and offer comprehensive test coverage and high productivity. Options include flexible systems for design characterisation, environmental stress screening for product life cycle test and high-throughput production test. The same system and software platform can even be used for the repair of faulty units.

Fast & flexible systems for functional test

Schaffner's unique methodology for functional power supply test combines modular Intepro

9000 hardware with innovative PowerStar 5 software for significant productivity advantage.

In high volume applications, increased throughput helps manufacturers reduce costs. Improved test efficiency in the design laboratory allows for more thorough testing, more detailed characterisation and improved quality assurance. Power supply manufacturers converting to Schaffner test systems from traditional equipment have reduced test times by up to 90% in some cases.

Modular hardware

Intepro 9000 is a modular, open architecture system that allows configuration of custom solutions to meet individual needs. There is a range of pre-configured standard systems available, but all systems remain expandable and upgradeable to adapt to future needs, so your investment is always protected.

In addition to Schaffner's comprehensive range of loads, high frequency scanners, power relays and measurement modules the flexible architecture allows virtually any third party instrument to be used via industry standard IEEE, VXI or RS232 interfaces. Virginia Panel is the standard mechanical fixture interface, however any other interconnect system can be provided on request.

Flexible software

PowerStar 5 windows-based software provides a complete environment for test generation and management. An extensive library of more than 100 standard tests and intuitive drag-and-drop programming allows engineers to develop complete test programs in a

fraction of the time required for traditional generation and de-bug.

Interactive software offers real time control of virtual instrumentation for detailed diagnostic and repair work. Real-time monitoring of critical parameters protects the unit-under-test from accidental damage.

A built-in Selftest function runs routine performance checks on your Intepro 9000, for comprehensive quality control procedures. Automatic fixture identification ensures the correct fixture is in place and keeps track of pass / fail data for each power supply.

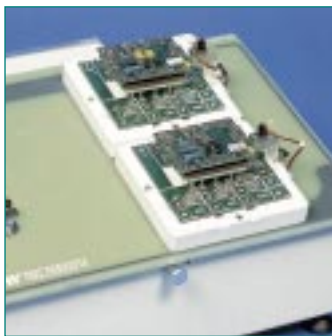
Professional reporting facilities are provided also, and test results are logged in ASCII format for compatibility with common analysis packages including Excel™ and Access™.

Efficient systems for environmental stress screening

Schaffner's LoadSaver-based environmental stress screening (ESS) systems for AC-DC and DC-DC converters are ideal for both burn-in and characterisation applications.

LoadSaver recycles up to 85% of power, dramatically cutting the large energy bills normally associated with these tests. The output energy from these efficient, modular programmable loads is recycled back to the three phase AC mains, reducing heat loss and eliminating the requirement for complex and costly cooling systems. The net result is a compact, versatile and adaptable test instrument.

Windows-based control



Loadsaver Burn-in System



software makes Loadsaver extremely easy to use, with simple set-up screens, a built-in load profile editor for the definition of power/load cycles and virtual instrument displays. The software provides real-time monitoring of power consumption, with all events logged according to the user's requirements.

For more complex ESS test applications, Loadsaver is fully compatible with PowerStar 5 software. This combination provides dynamic load profiling and a virtual application for the creation of user-specific interfaces. Full PowerStar 5 reporting and documentation functions are also provided, including the option to write data into Excel for further analysis, such as graphical representation of the bath tub curve or product life cycle.

Total capability for lifecycle management

The unique approach to power supply test is not confined just to each individual area of test. It spans the entire life cycle from design characterisation, through production test to environmental stress screening and repair.

The flexibility of the PowerStar 5 environment means that you can control every aspect of your power supply test from

the same software platform, for complete portability of test routines. Programs constructed in the design phase for characterisation can be used as the basis for functional production testing, adapted for ESS and re-used in repair. This saves hours of skilled programming time throughout the life of the product.

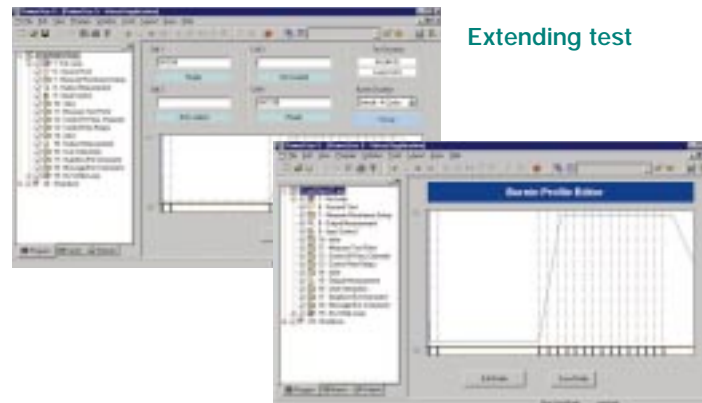
Schaffner pedigree

Schaffner's long standing experience in the design, build and integration of power supply test systems is your guarantee of reliability. Our extensive hardware and software capability is backed by more than 20 years of world-class engineering expertise.

Open-architecture test hardware and software give Schaffner the ability to implement your project specification accurately. Furthermore, the service does end with the installation and commissioning of your test system. Schaffner's worldwide support network provides training, after-sales and lifetime technical support for your investment.

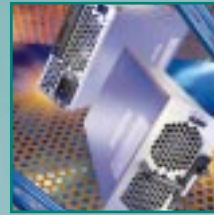
automation capability
Schaffner's systems are compatible with automatic handling and visual inspection, which increase the productivity of the test process even further.

- *Machine Vision combines high resolution CCD cameras with advanced pattern recognition software for automation of a wide range of visual checks on power supplies.*
- *Robotic handling systems cut power supply handling time to a minimum, for significant increases in test throughput. In applications where multiple tests are being performed—such as safety testing and functional testing for example—a robotic handling system can be used to automate movement from one station to the next.*
- *The Dual Well fixture eliminates handling time by allowing one power supply unit to be tested while the other is loaded / offloaded.*



Extending test

ATE solutions for power supply manufacturers



Schaffner

The Schaffner Group is a global group of companies comprising world-leading businesses in power electronics ATE, EMC test equipment and EMC components. With its head office in Switzerland and sales subsidiaries in China, France, Germany, Ireland, Italy, Japan, Singapore, Sweden, Switzerland, UK and the US, Schaffner is active in all major electronics markets world-wide.

Schaffner has been supplying high-performance power electronics ATE solutions to commercial, telecom and military power supply manufacturers for more than 20 years.

Wherever you are in the world, as a Schaffner customer, you can be confident of the highest quality products, complemented by skilled consultancy and support, today, tomorrow and into the future.

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