Power Supply Test

Agilent Technologies and FineTest

Reliable, repeatable and automated power supply testing

A reliable power supply is fundamental to the operation of all electronic products. When specifying a power supply test system you have to decide whether to design and build in-house or use an external supplier. With today's resource limitations and cost constraints the decision is more often to go outside for your power supply tester.

FineTest has over 35 years of experience in designing power supply test systems. The company has numerous power supply testers installed in military and commercial organizations, in production and repair environments. In creating its power supply test solutions, FineTest uses a proven design that is easily configured for different input and output needs. The FineTest FT600 design uses an open architecture and standard control buses that facilitate the creation of the power supply tester, supports custom requirements and allows for future expansion. Systems can be designed to meet all of your standard and custom power supply testing needs.

The FineTest power supply test systems use standard lab quality instrumentation in their designs. This gives the advantages of reliability, worldwide support, ease of calibration and correlation with bench instruments. The power supply test systems can use a wide variety of Agilent equipment including the 3499A and 34980A switches, 33220A function generator, 34401A DMM, DSO5000 series oscilloscope, 6800 Series AC power sources, N33000A electronic loads, and programmable DC power supplies.

Power supply test systems are available on a variety of different language platforms including Agilent Technologies VEE Pro. Agilent VEE Pro in conjunction with FineTest's FineSoft software is used to fully automate the testing procedures. VEE Pro provides a powerful industry standard graphical test programming language while FineSoft provides a package of instrument drivers, program shell and test library tailored to your power supply testing needs.

With FineTest's power supply test systems built around Agilent's instrumentation and software you can now make reliable, repeatable and automated measurements on all of your power supplies.

- ***FT600 power supply test system***
- ***Open, standards-based architecture***
- ***Configurable for standard and custom power supply tests***
- ***Uses standard Agilent instrumentation***
- ***Agilent VEE Pro plus FineTest FineSoft software***
- ***Reliable, repeatable and automated power supply testing***

Anticipate ___Accelerate ___Achieve

Agilent Technologies

Power Supply Test

Standard Power Supply Tests

FineTest power supply test systems can be designed to include a comprehensive set of standard power supply tests including,

- Inrush current amplitude and duration
- Output voltage
- Input power
- Efficiency and power factor
- Current distortion and harmonics
- Line and load regulation
- Ripple and noise
- Over-voltage protection (OVP)
- Current limit
- AC drop-out, sag and surge, phase drops
- Timing tests: Power-on time, hold-up time, signal to signal timing (ex. output off to power fail hi)
- Current share
- Hot swap and redundancy
- EEPROM programming and verification
- JTAG, RS-232/422/485 and I^2C communications to the UUT
- Integrated thermal stress and temperature cycling

System Components

Agilent Technologies

3499A	Switch/control mainframe
34980A	Multi-function switch/measure unit
33220A	Function/arbitrary waveform generator
34401A	Digital multimeter
5000 series	InfiniiVision oscilloscopes
681x series	AC power sources
N330x series	Electronic loads
VEE Pro	Graphical language environment

FineTest

FT600	FineTest power supply test system

To learn how this solution can address your specific needs please contact Agilent's solutions partner, FineTest

www.agilent.com/find/finetest

FineTest

Agilent Technologies

Solutions Partner

Agilent Solutions Partner Program
Agilent and its Solutions Partners work together to help customers meet their unique challenges, in design, manufacturing, installation or support. To learn more about the program, our partners and solutions go to
www.agilent.com/find/solutionspartner

FineTest
FineTest has over 35 years of experience in designing and producing test systems for power supplies and electronic sub-assemblies.
www.finetest.com

For information on Agilent Technologies' products, applications and services, go to
www.agilent.com

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2010 – 2012
Printed in USA, March14, 2012
5990-7085EN

Agilent Technologies