



FineTest

www.finetest.com

Test Fixtures and ITAs



Functional ATE & Power Supply Testers



Military and Aerospace Test Systems

Functional ATE Systems

Power Supply Test Systems

Hi-Pot Test Systems

ESS / Burn-In / Vibration Monitoring Systems

Manual Test Systems

Test Fixtures and ITAs

Box Builds and Sub-Assemblies

Switching and I/O Cards

Custom Cabinets and Accessories



FineTest 1 Industry Drive, Palm Coast, FL 32137 Tel: (386) 569-6189 Fax: (386) 446-0463 email: sales@finetest.com

Functional ATE & Power Supply Test Systems



FineTest 1 Industry Drive, Palm Coast, FL 32137 Tel: (386) 446-0463 Fax: (386) 446-0465 email: sales@finetest.com

Test Fixtures and Interface Test Adapters (ITAs)

*Test Fixtures and Interface Test Adapters
are used with FineTest Testers
for many diverse applications
including the following:*

*Military and Aerospace Power
Telecom Power*

Avionics Functional Test

Design Verification Test

Sub-Assembly and Board Test

Hipot Testing

Test System Self-Test



Self-Test Fixture for Power Supply Tester

TEST FIXTURES & ITAs



Self-Test Fixture with rear cover open



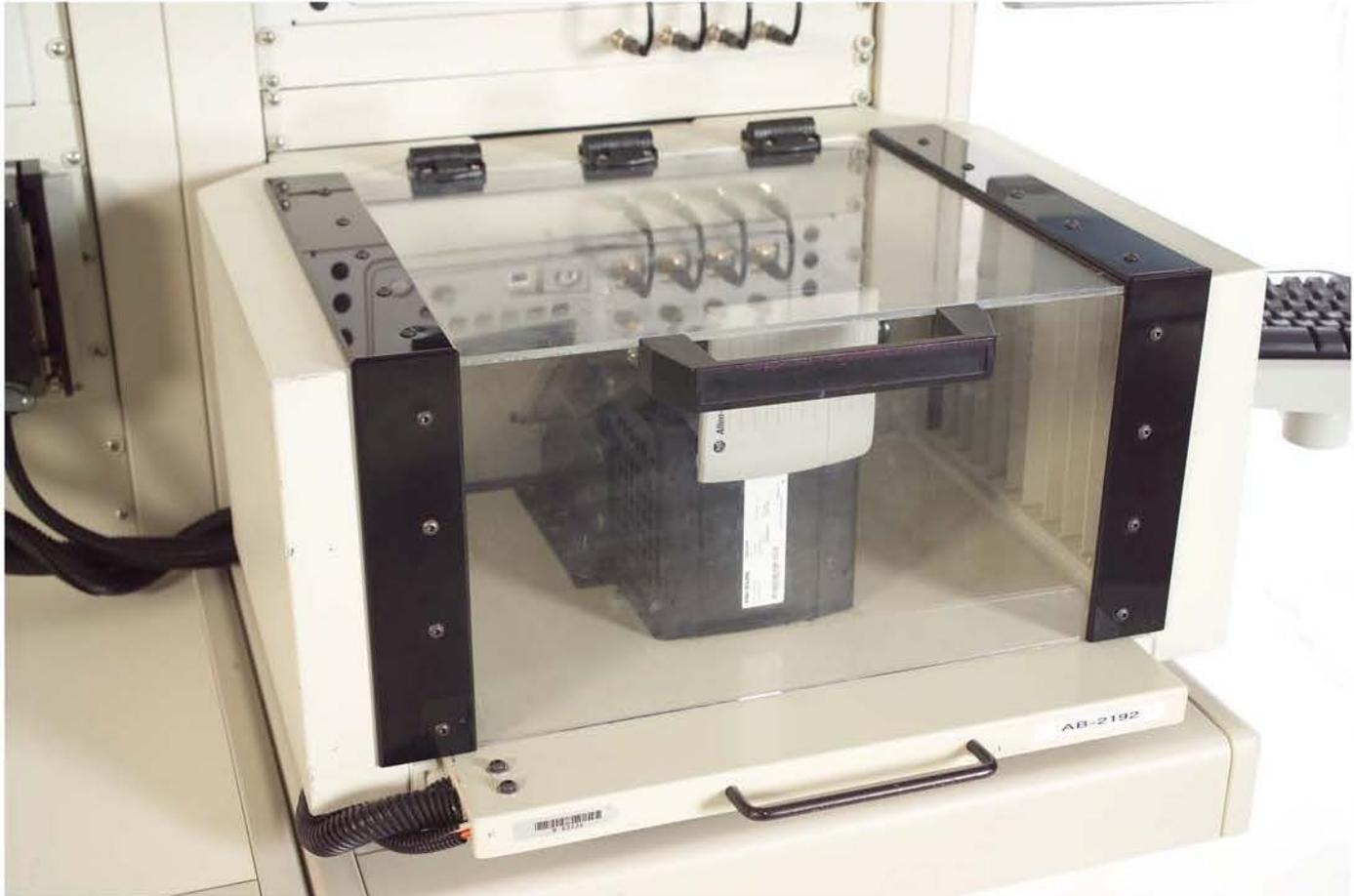
Self-Test Fixture with rear cover closed



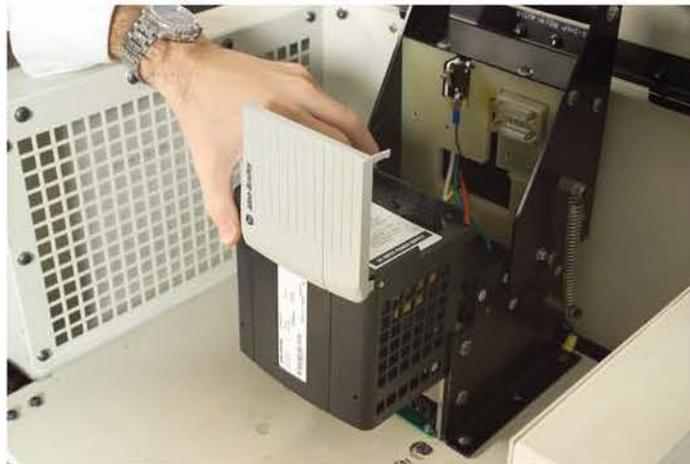
Fixture front with Virginia Panel Connectors

Production Test Fixture with Built-In Thermal Chamber

TEST FIXTURES & ITAs



Test Fixture with cover open



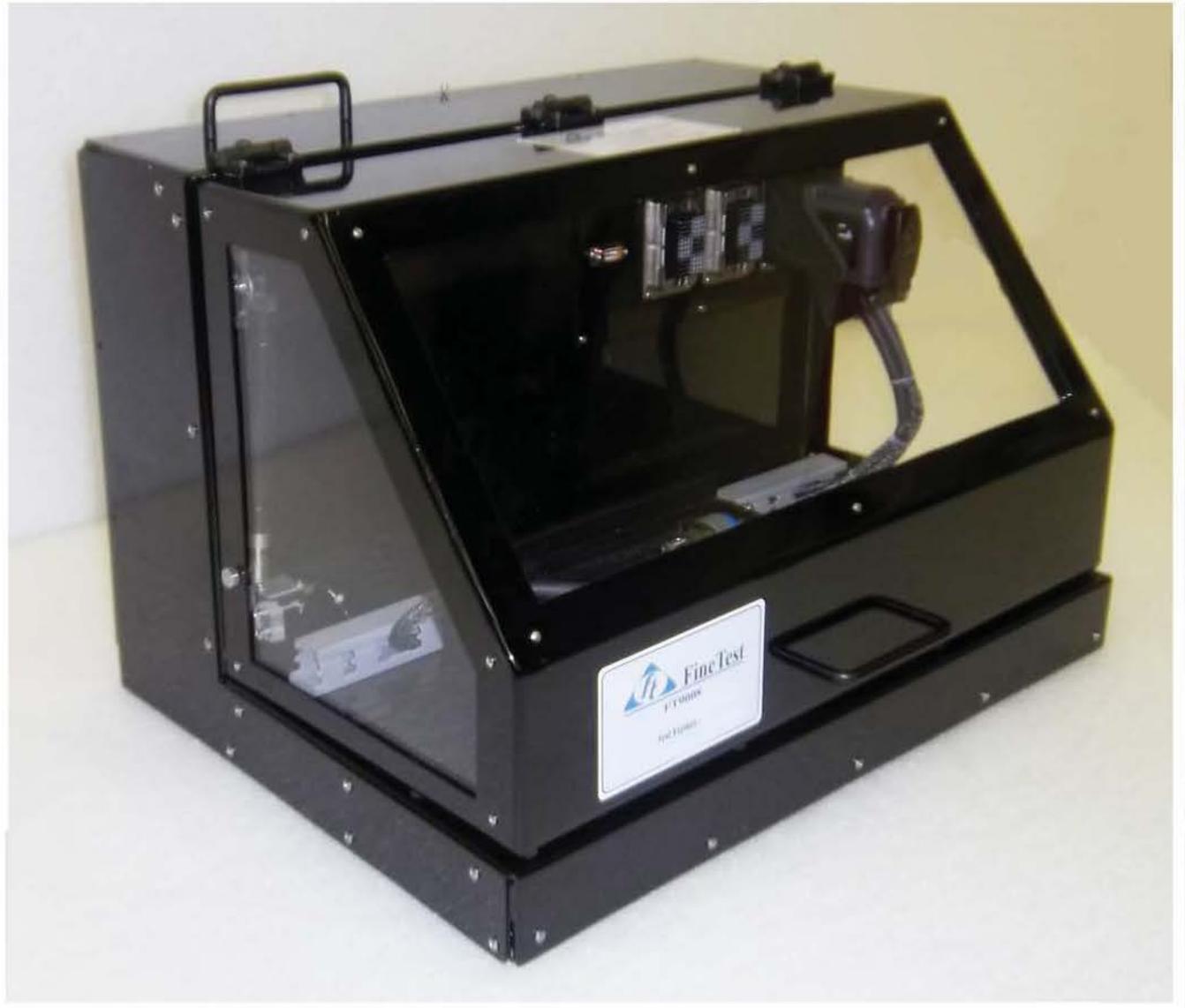
Installing a UUT into the Test Fixture

*Test Fixture
with a UUT
Installed*

 **FineTest**
www.finetest.com

Interface Test Adapter (ITA) for EMI Filter and Battery Test

TEST FIXTURES & ITAs

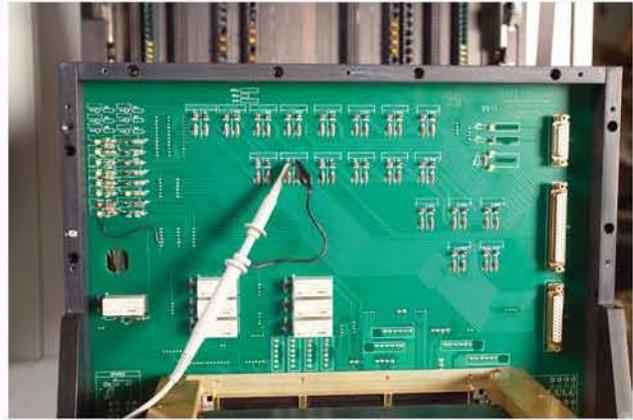


Front view of EMI Filter and Battery Interface Test Adapter (ITA)

Interface Test Adapter (ITA) for Military Power Supplies

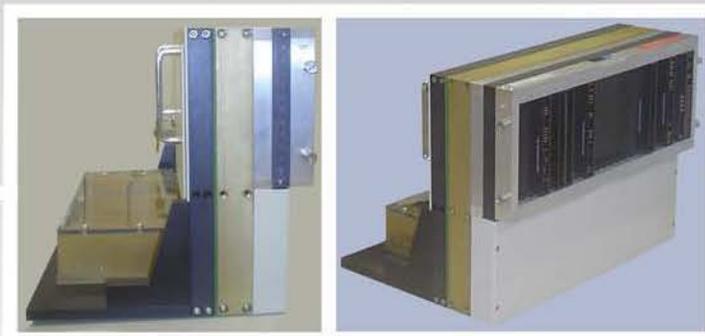


Front View of Interface Test Adapter



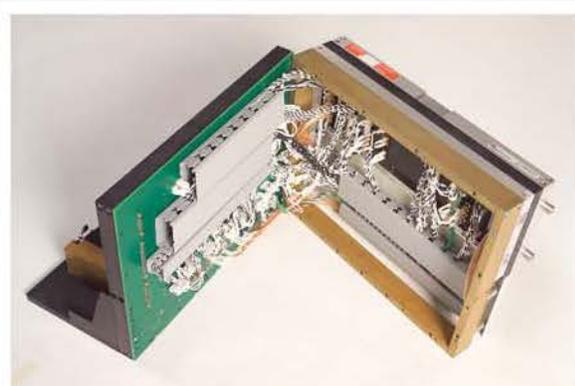
Front View of ITA with Cover Removed allows access to test points with clips for Scope and DMM Probes

TEST FIXTURES & ITAS

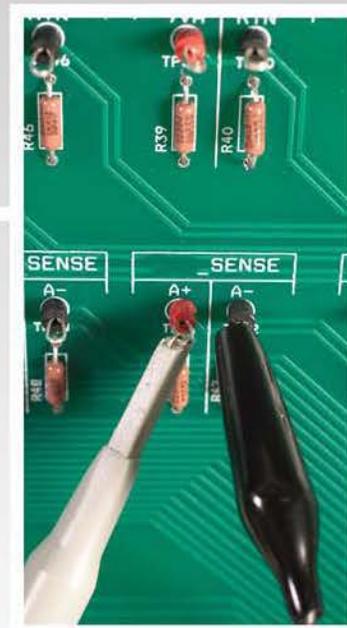


Side View

Rear View



Adapter Opens to allow easy access to wiring



Close-Up of clips for Scope Probes

 **FineTest**
www.finetest.com

Interface Test Adapters (ITA) for Military Functional Test

TEST FIXTURES & ITAs



ITA/Cable Harness on Storage Rack



Inside ITA/Cable Harness with Bus Bars



Inside ITA/Cable Harness wiring

Test Cable Harnesses for Military Functional Test



TEST FIXTURES & ITAs

Duplicate Cable Harnesses for Military Functional Test

Roll-Around ATP Test Fixture for Military Power Supplies

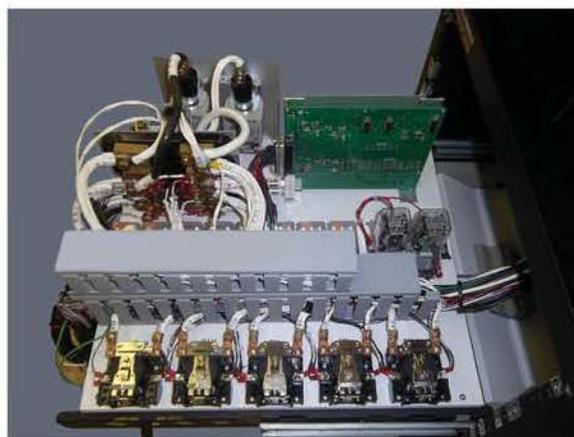
TEST FIXTURES & ITAs



Front view Roll-Around ATP Fixture

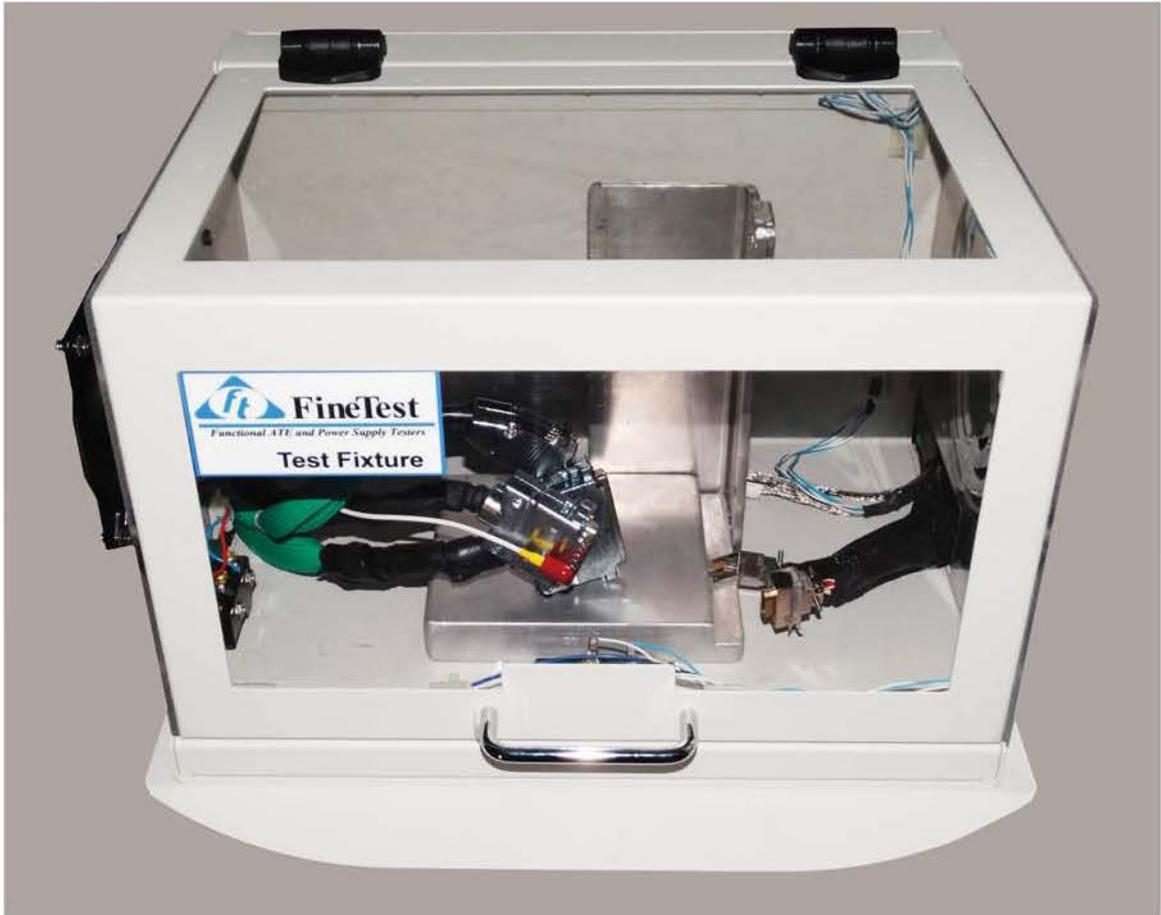


Rear view with Safety Cover Open showing Cable to Connect Fixture to ATE



Pull-Out shelf for easy access to parts

Interface Test Adapter for Avionics Functional Test



TEST FIXTURES & ITAs



ITA mounted on height adjustable arm

Front view of
Interface Test Adapter
with safety cover and
built in heat sink

 **FineTest**
www.finetest.com

Roll-Around ATP Test Fixture for Military Power Supplies

TEST FIXTURES & ITAs



Front view Roll-Around ATP Fixture



ATP Fixture with Safety Door Open



Cable to Connect Fixture to ATE



Pull-out Interface Unit for easy Maintenance, and Service



Interface Unit with Top Removed showing Differential and Current Probes, Resistive Loads, Relays etc.



Close-up of the Fixture Top showing Mating Connectors, Gas Springs, and Top plate as a Heat-Sink



Safety Cover MicroSwitch and Latch

Production Test Fixture for Telecom Controller Board

TEST FIXTURES & ITAS



Fixture & Tester



Close-Up Test Fixture with a UUT

Cabinet Test Fixture for Telecom Power Supplies



Tester & Cabinet Test Fixture with multiple slots per shelf

TEST FIXTURES & ITAS



Fixture with Safety Door Closed



Fixture with added HV Loads and Scope



Installing a UUT

 **FineTest**
www.finetest.com

Roll-In Cart Test Fixture for Medical Device Testing

TEST FIXTURES & ITAs



Front view of Fixture with a UUT showing Flashing Safety Light, Emergency On/Off, and Sound Pressure Measurement Microphone

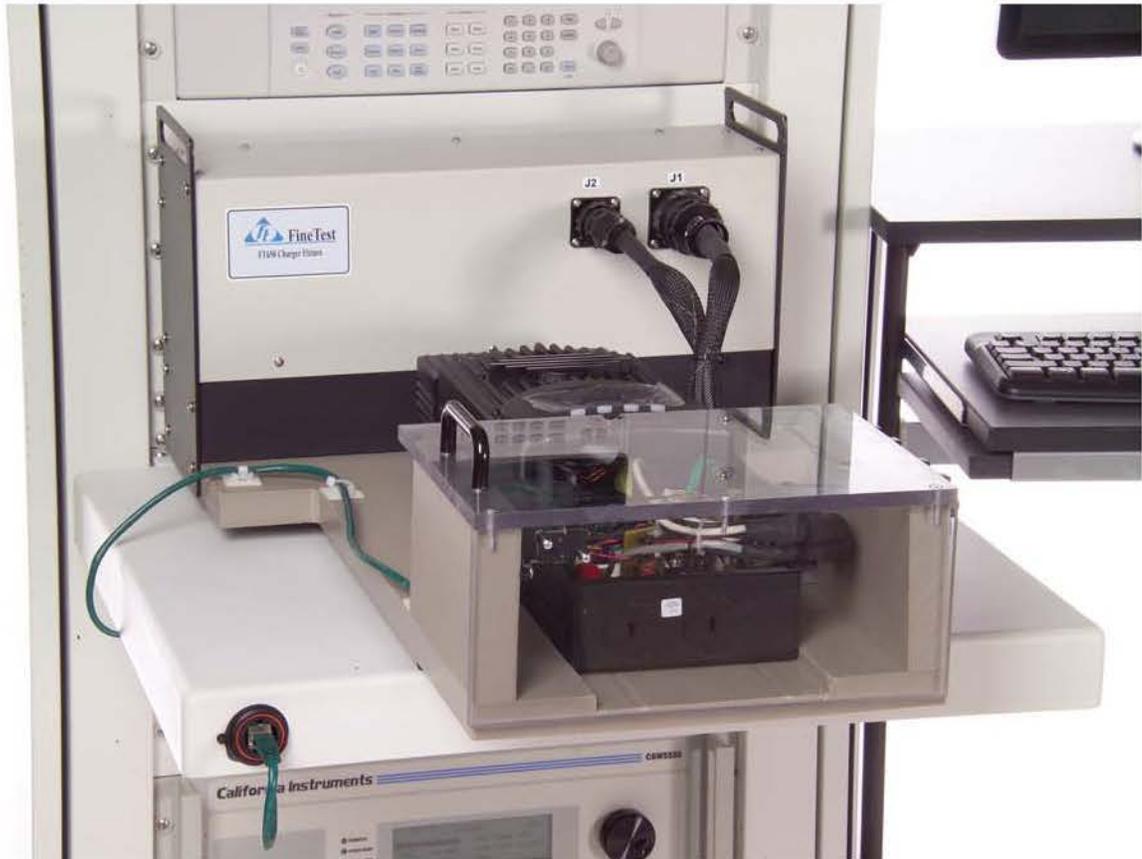


Tester & Test Fixture



Rolling-In a UUT with a Cart

Production Test Fixture for Battery Chargers



TEST FIXTURES & ITAs

Close-Up of Fixture with a UUT



Tester & Test Fixture

 **FineTest**
www.finetest.com

Motorized Test Fixture for Inverters and Battery Chargers

TEST FIXTURES & ITAs



Front view of System with Inverter Test Fixture and a UUT



*Side Angle View
of Inverter Test Fixture
showing safety cover doors
and Ball Transfer Table
for direct integration into the
Production Line*



Adapter Palte to connect to UUT



*using Pogo-Pins,
LED sensors & Bus Bars*



*Bus Bars and large PCB Pads
for Test Fixture Pogo-Pins*



Fixture in the UP Position



Fixture Top Pogo-Pins



Close-Up 250Amp Pogo-Pins



*Fixture in the DOWN Position
connected to a UUT*



Close-Up of High Current Pogo-Pins

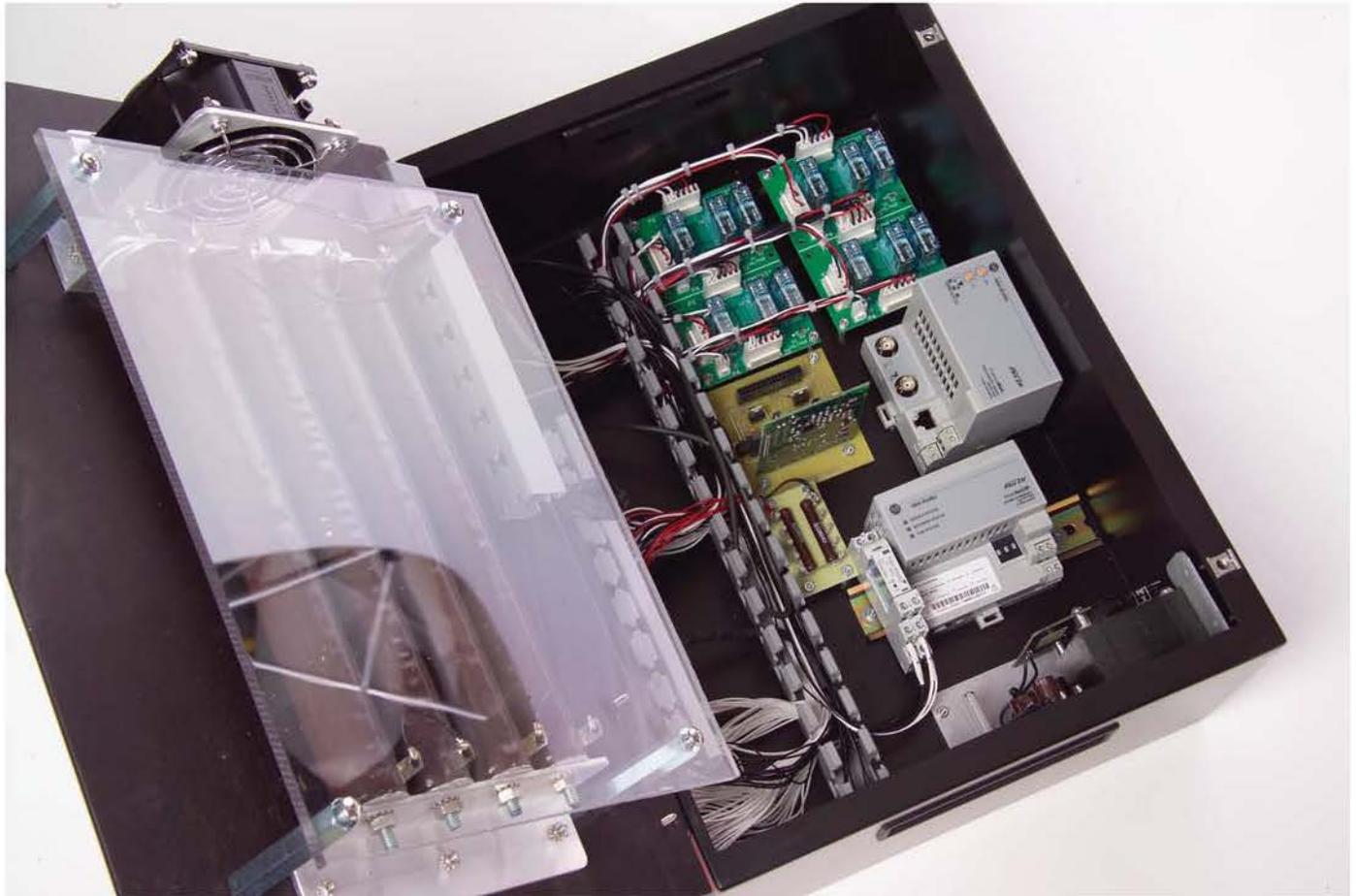
*making contact with
the Adapter Plate and UUT*

 **FineTest**
www.finetest.com

TEST FIXTURES & ITAs

Self-Test Fixture for Functional ATE

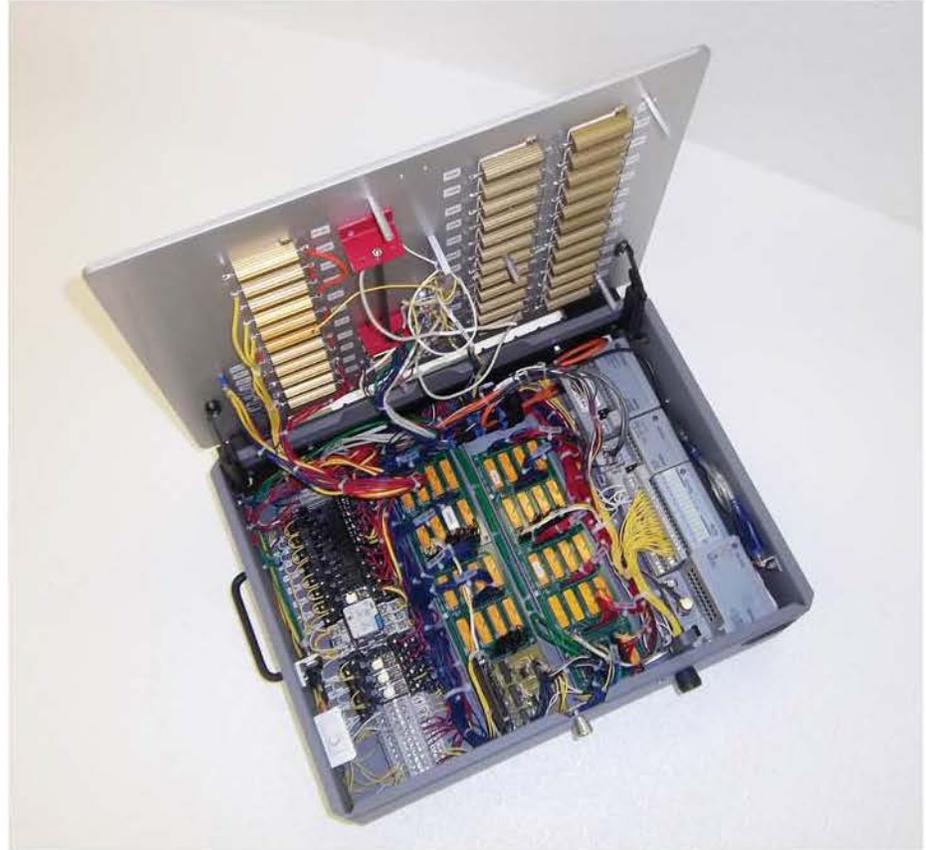
TEST FIXTURES & ITAs



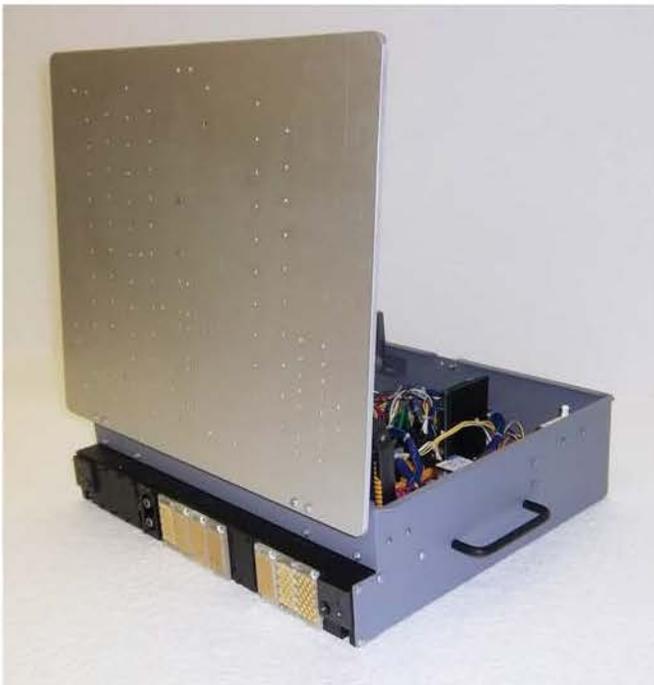
*Self-Test Fixture with cover open showing:
Resistor Loads, Relay and Digital IO Controls,
Ethernet and USB Test Devices*

Build to Print Test Fixture for System Self-Test

TEST FIXTURES & ITAs



Top View with Cover Open showing Wiring



Gen-Rad Connector Side with Cover Open



Fixture Front with cover closed

 **FineTest**
www.finetest.com

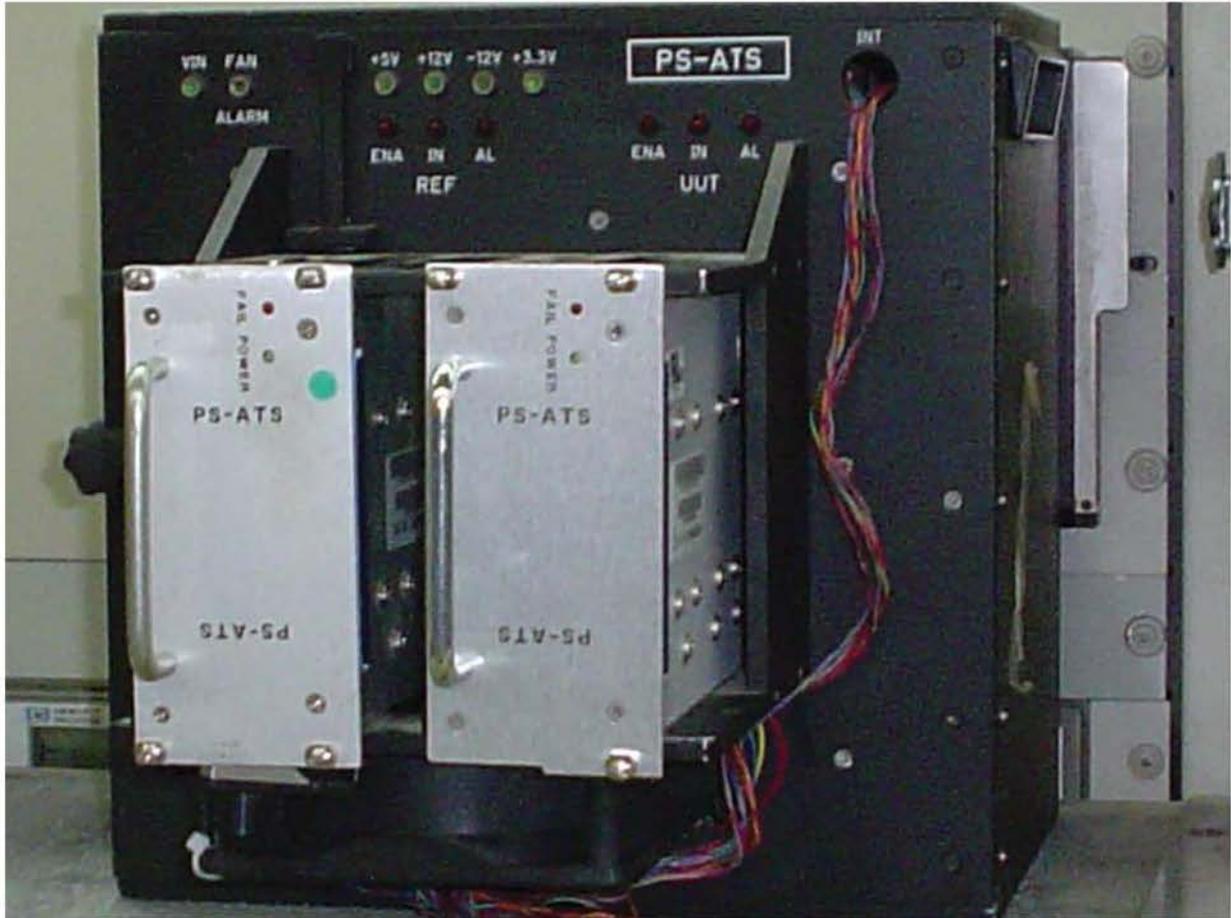
Production Test Fixture for Telecom Power

TEST FIXTURES & ITAs



Front view of Tester with Test Fixture

Hot-Swap Test Fixture for Redundant Telecom Power



TEST FIXTURES & ITAs



2nd Hot-Swap Fixture

Hot-Swap Redundant Test Fixture



Tester with Fixture on the Production Floor

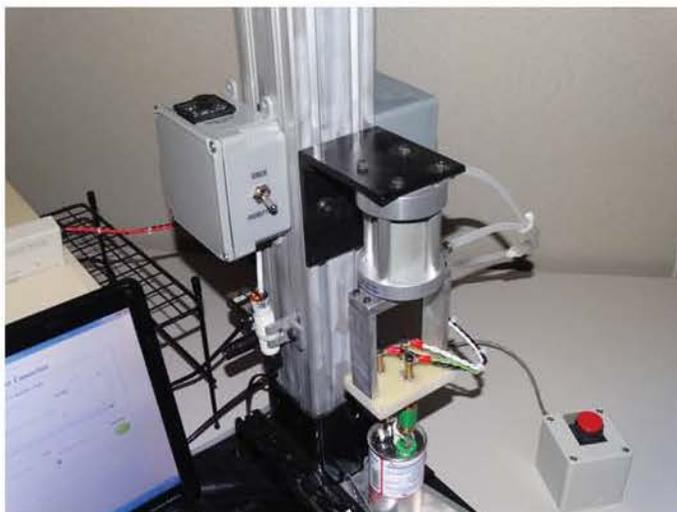


Vertical Cylinder Fixture for Capacitor Production Test

TEST FIXTURES & ITAs



Front view of System with Label Printer, Computer, LCR Meter and vertical Air Cylinder to connect to UUT



Close-Up Vertical Air Cylinder to connect to UUT



Close-Up connect to UUT

Production Test Fixture for Telecom Power Supplies



TEST FIXTURES & ITAs



Tester with Test Fixture and UUT



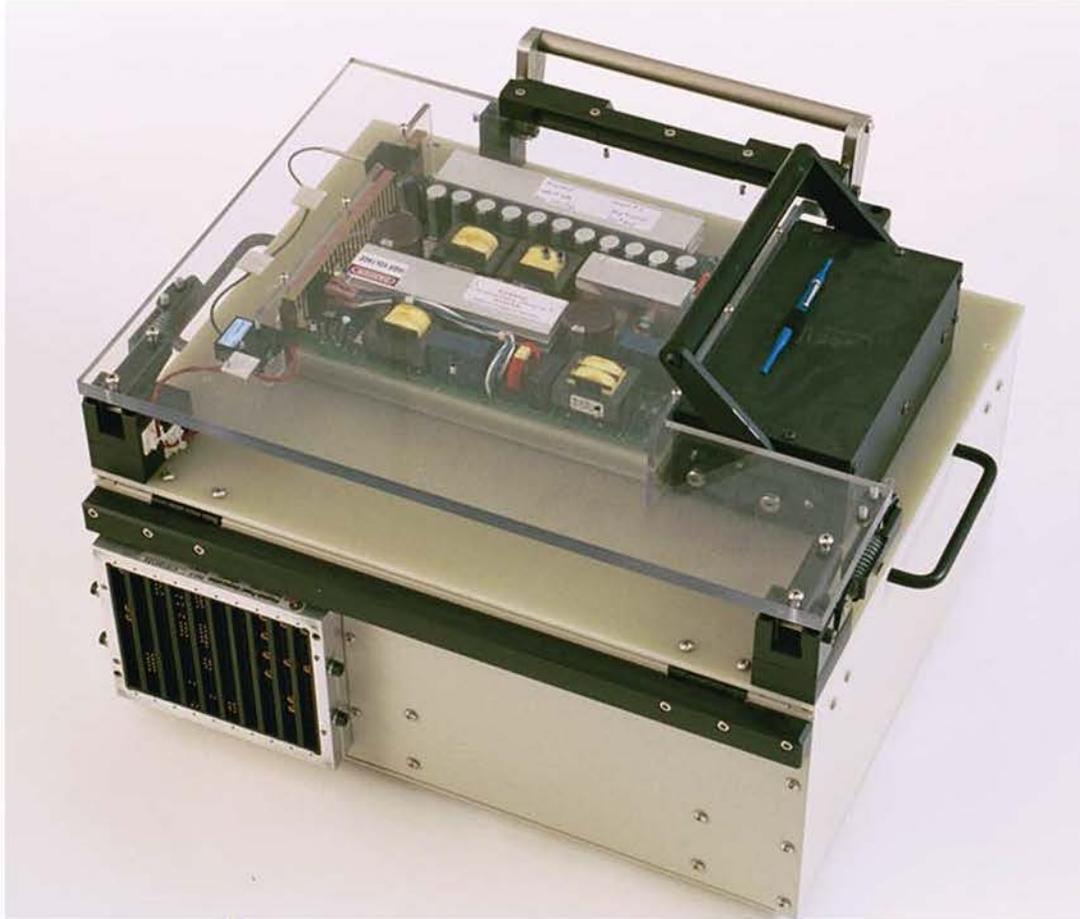
Test Fixture with safety cover open

Close-Up of Test Fixture
with a UUT Installed

 **FineTest**
www.finetest.com

High Volume Production Test Fixture

TEST FIXTURES & ITAs

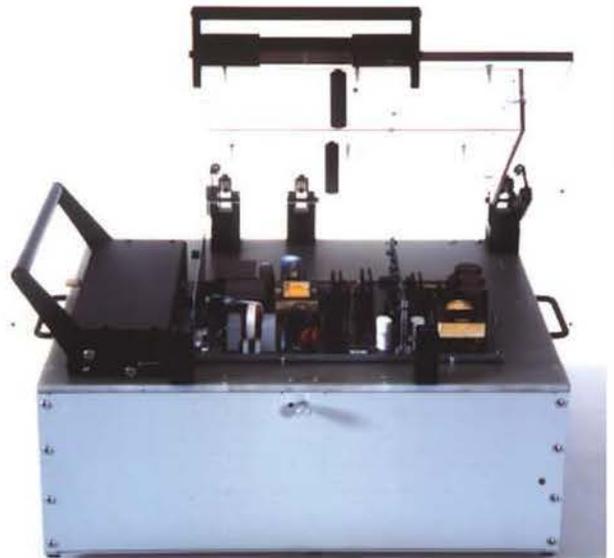


Test Fixture with UUT

Application: High Volume Production Test

Features:

- Mechanical arm to plug in UUT
- Optical Sensor to verify LED On/Off and Color
- Locking Safety Cover
- Large base with room for Relays, PCBs etc.

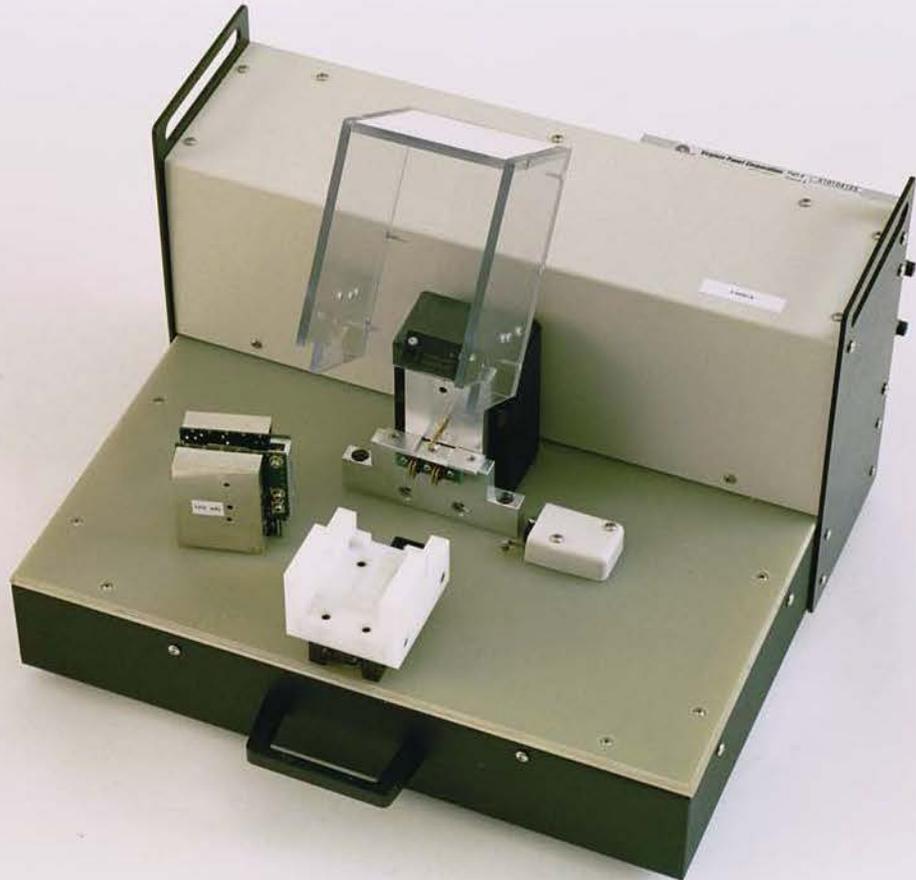


Test Fixture with Safety Cover Open

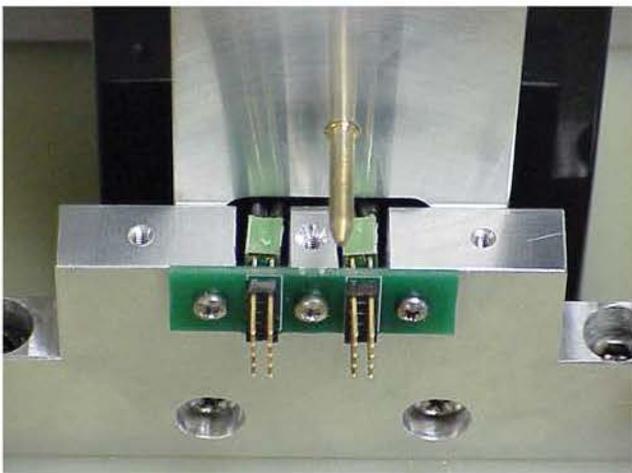
 **FineTest**
www.finetest.com

Production Test Fixture for Telecom Power Supplies

TEST FIXTURES & ITAS



Front view of Test Fixture with UUT



*Close-Up of UUT Mating Connectors
and Guide Pin*

Application: High Volume Production Test

Features: Sliding plug for UUT
UUT Mating Guide Pin
Safety Cover

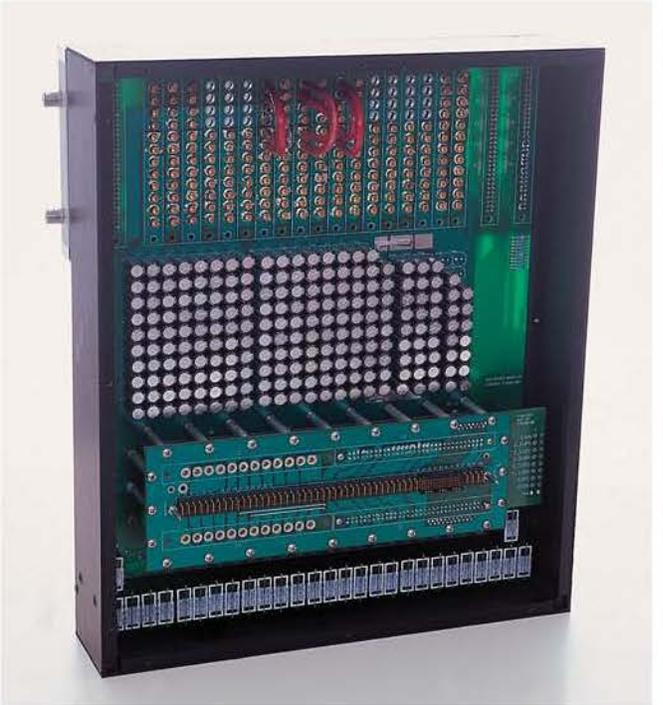
 **FineTest**
www.finetest.com

Production Test Fixtures for Mainframe DC-DC

TEST FIXTURES & ITAs



Rear view of DCA Test Fixture



Front view with front panel removed



Side view with UUT



Front view with UUT



Multiple Test Fixtures
on the Production Floor

Application: High Volume Production Test

Features: PCB to UUT Mating Connector
Output Capacitor Bank with Low ESR



Production Test Fixture for Bulk Power Regulators

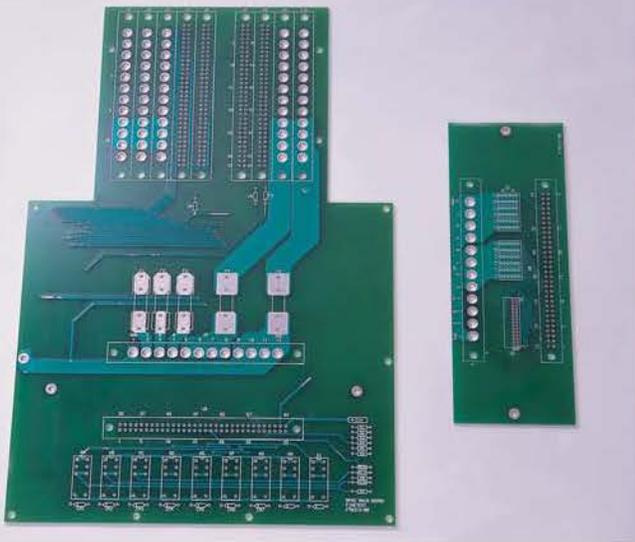


TEST FIXTURES & ITAS

Test Fixture with UUT on Production Floor

Application: Production Test

Features: PCB to UUT Test Fixture
Roll-In Cart to Tester



PCBs used in Test Fixture

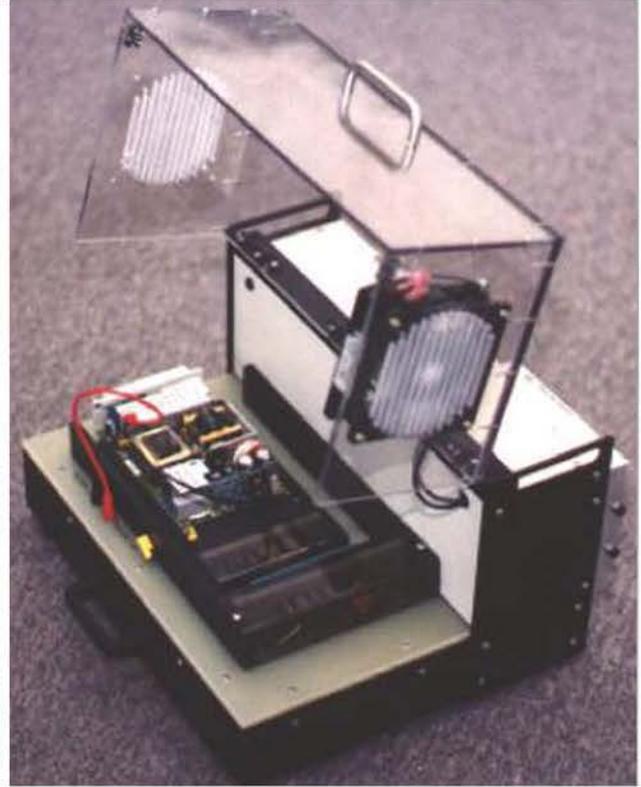
 **FineTest**
www.finetest.com

FineTest Test Fixture Kit for Open-Frame Power Supplies

TEST FIXTURES & ITAs



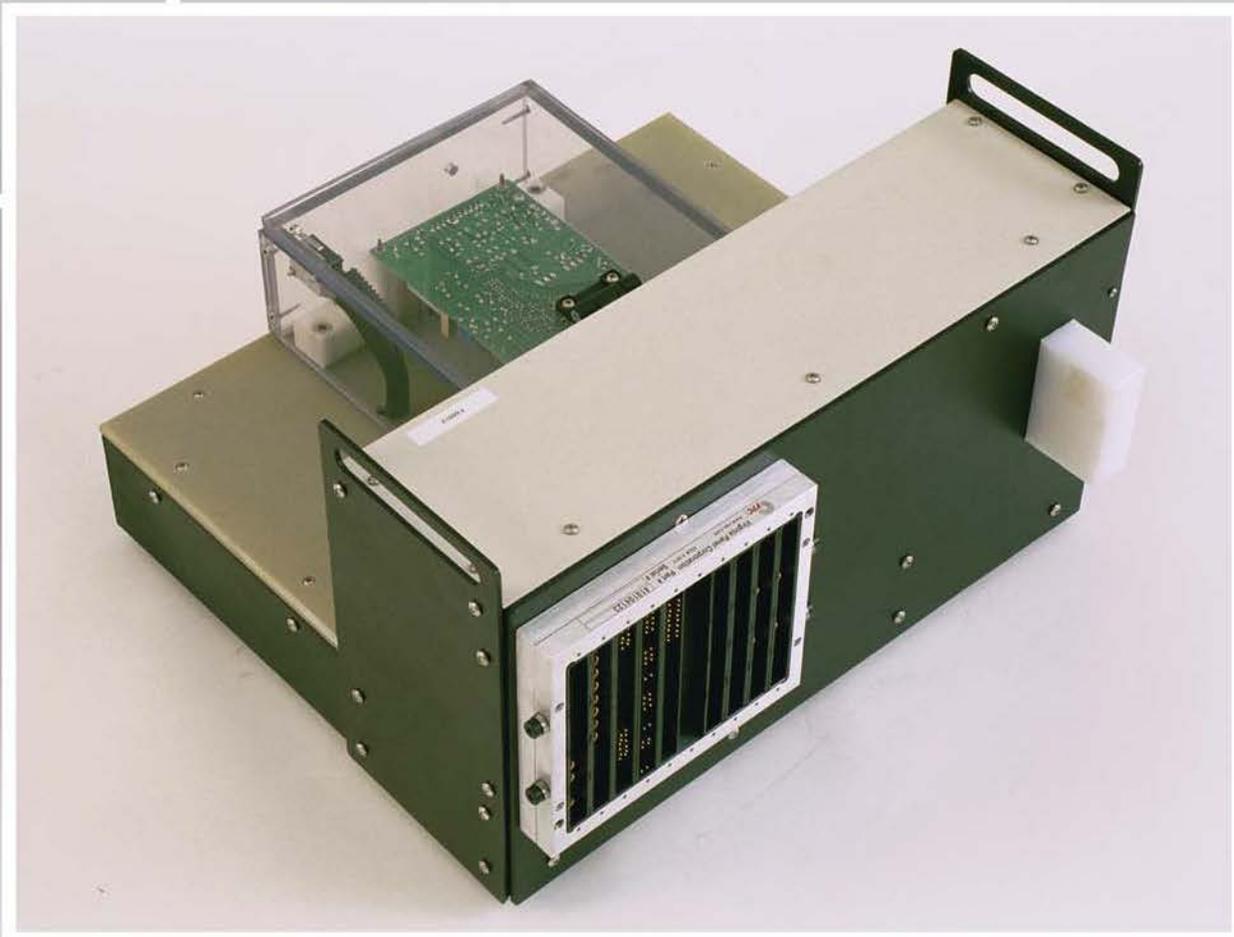
FineTest Test Fixture Kit with UUT



Test Fixture with Test Probes to Test Points inside UUT

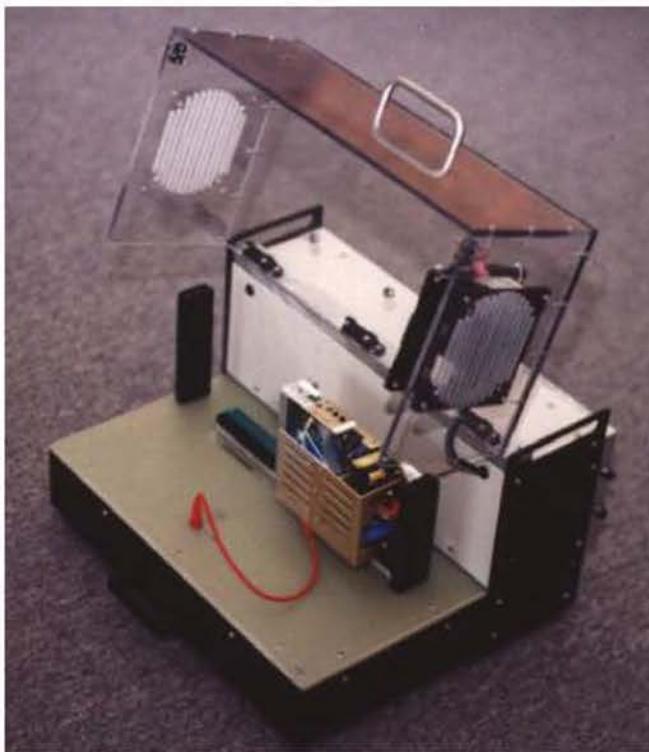
Application: High Volume Production Test

Features: FineTest Test Fixture Kit with:
Safety Cover and Cooling Fan
Custom milled rails to hold UUT and Mating Connector
Test Probes for Test Points inside UUT



TEST FIXTURES & ITAS

FineTest Test Fixture Kit with UUT



FineTest Test Fixture Kit with UUT

 **FineTest**
www.finetest.com

Production Test Fixtures for Telecom Power Supplies

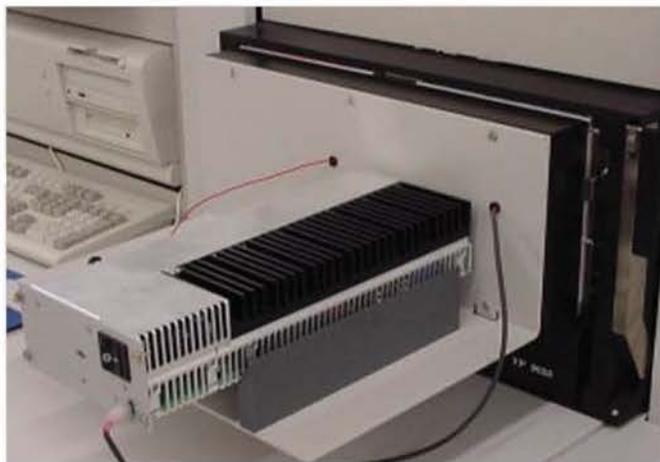
TEST FIXTURES & ITAs



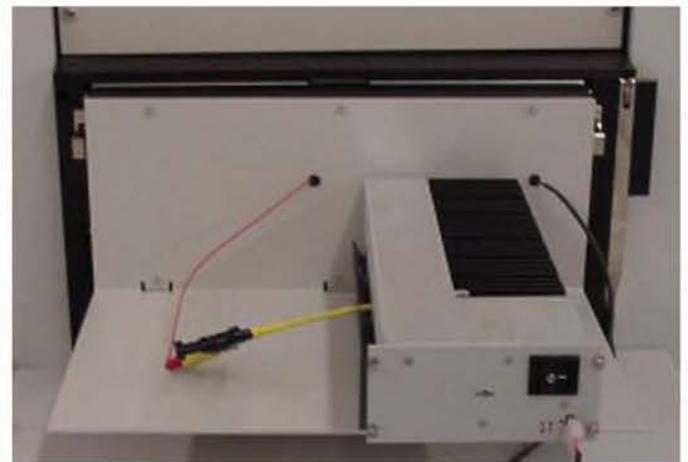
Test Fixture with UUT



Test Fixture with a Fan to test UUT Fan Output



Side view of a Test Fixture



Front view of a Test Fixture with Test Probe

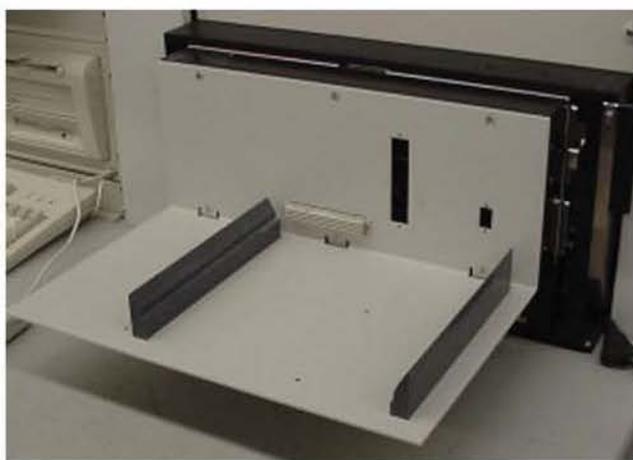
Application: High Volume Production Test

Features: Easy UUT Plug In Test Fixtures
Pogo-Pin Test Fixtures for Boards

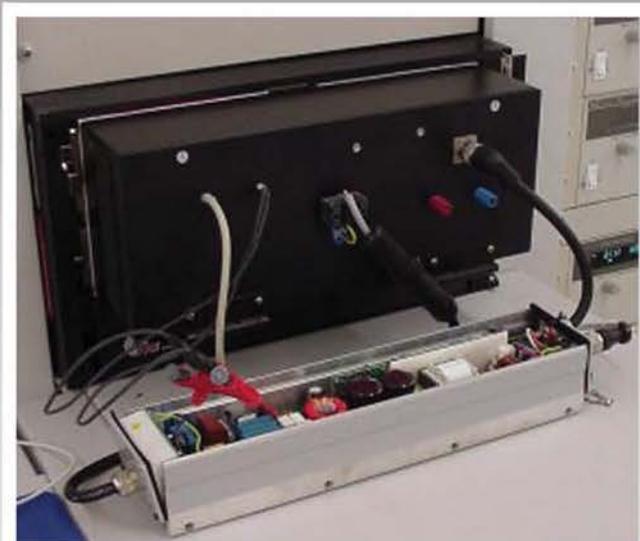




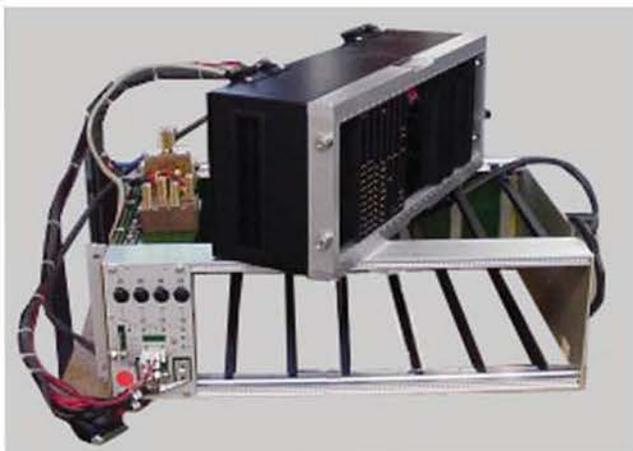
Plug-In Test Fixture



Plug-In Test Fixture



Test Probes inside UUT



Card Cage Test Fixture



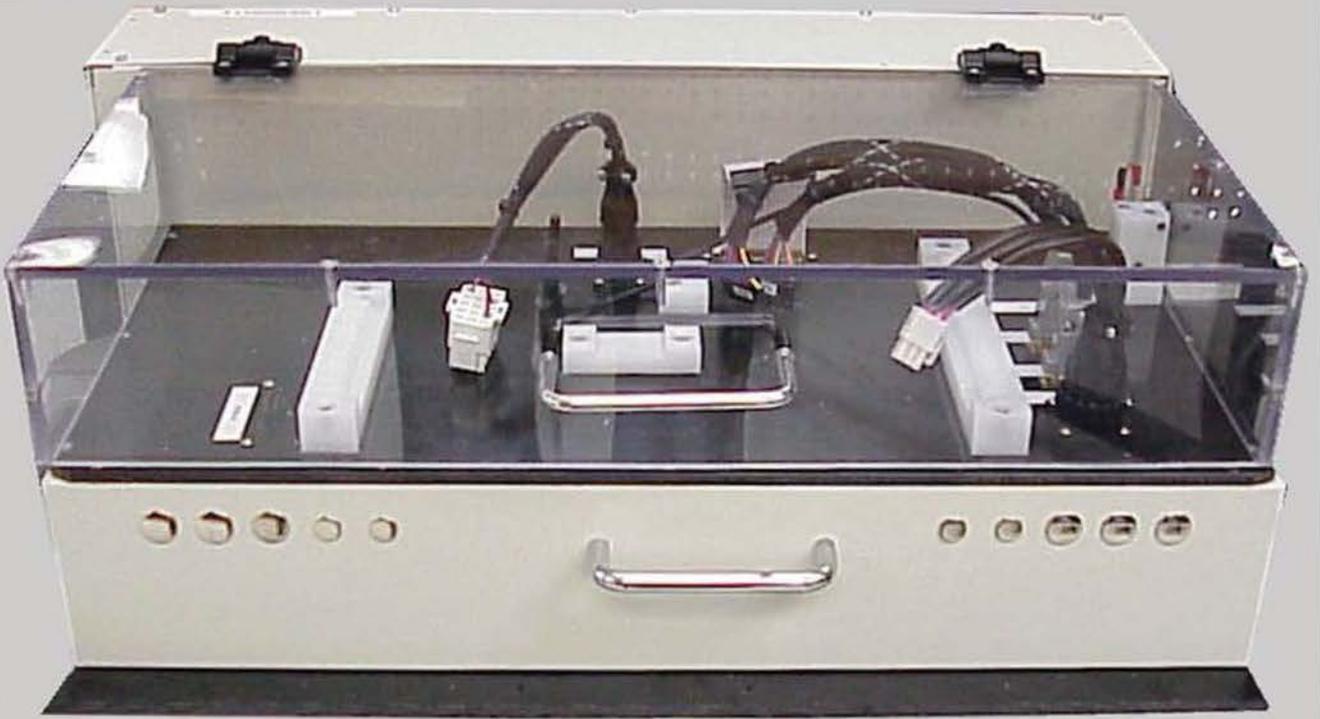
Side view Pogo-Pin Board Test Fixture



Front view Pogo-Pin Board Test Fixture

Sub-Assembly Boards Test Fixture

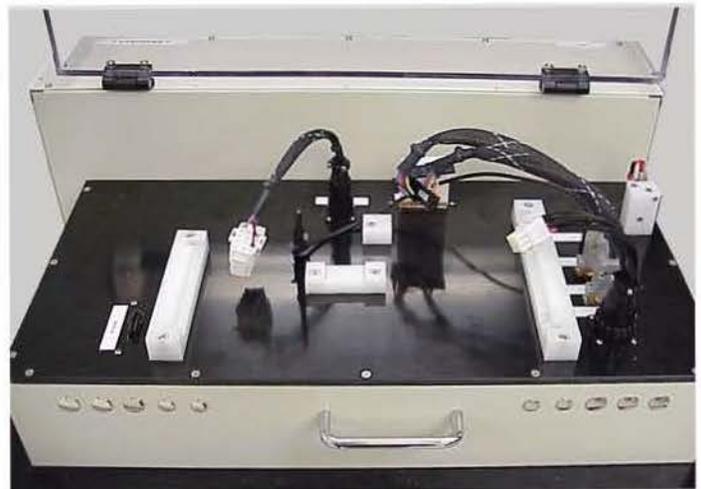
TEST FIXTURES & ITAs



Sub-Assembly Board Test Fixture

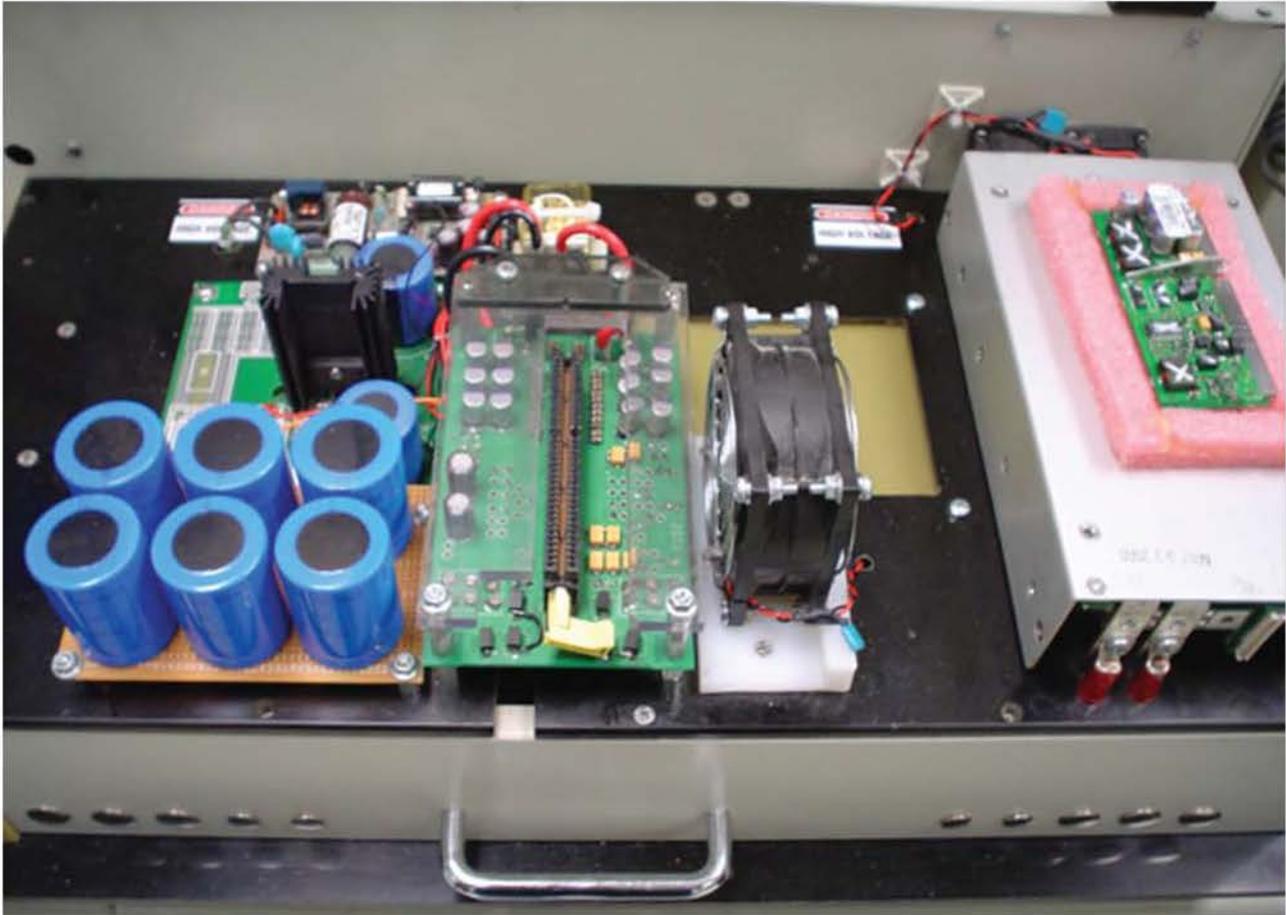
Application: Sub-Assembly Board Test

Features: Plug-In Cables to UUT
Multiple Board Types
on same Test Fixture



Test Fixture with Safety Cover Open

Production Test Fixture for Voltage Regulator Modules



TEST FIXTURES & ITAS



Test Fixture with Safety Cover Closed

Top view of Test Fixture with Safety Cover Open

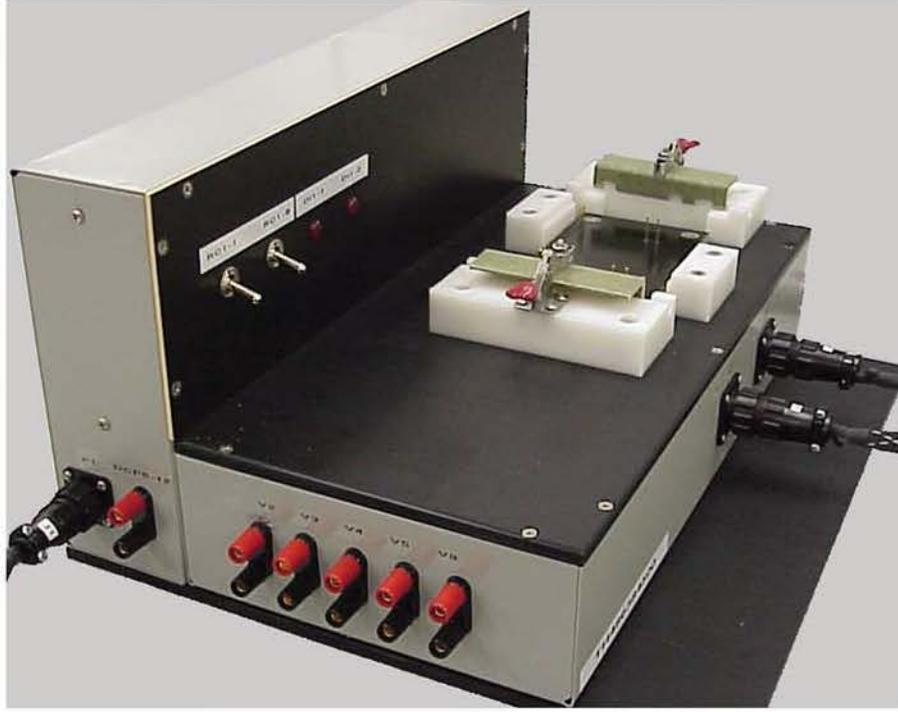
Application: Voltage Regulator Modules
High Volume Production Test

Features: Custom High Slew Rate Load
built into Test Fixture
Cinch Connector to Hold UUT

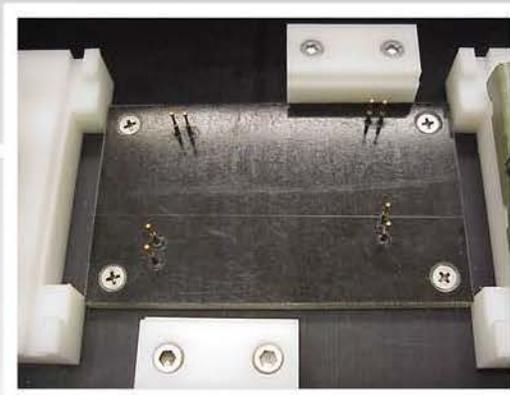
 **FineTest**
www.finetest.com

Pogo-Pin Test Fixture for Sub-Assembly Board Test

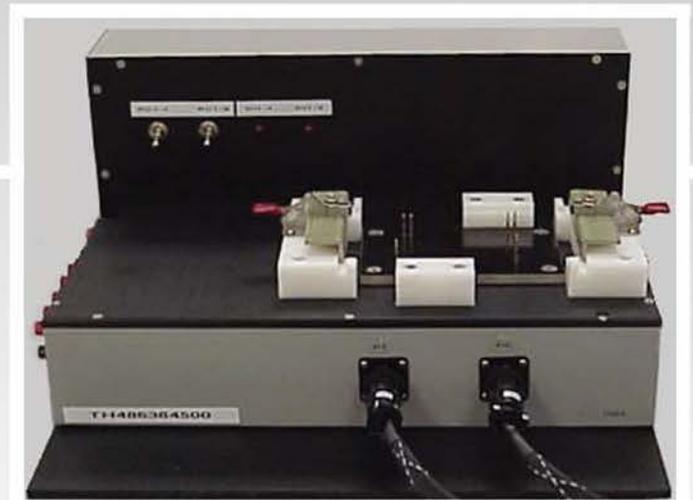
TEST FIXTURES & ITAs



Side view of Test Fixture



Close-Up of Pogo-Pins



Front view of Test Fixture

Application: High Volume Production Test

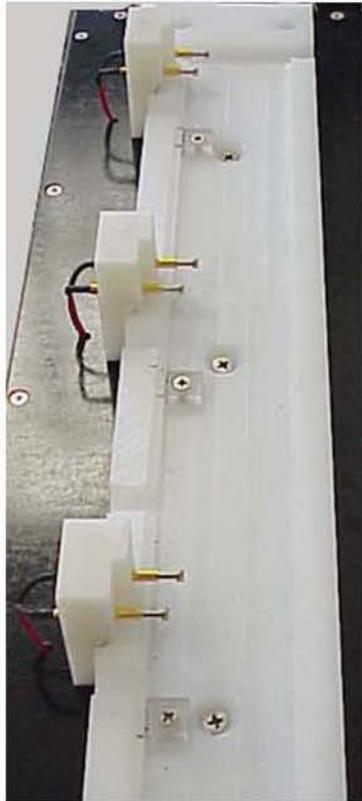
Features:

- Pogo-Pin connection to UUT
- External Banana Jacks for Manual Test Points
- Operator switches to control UUT

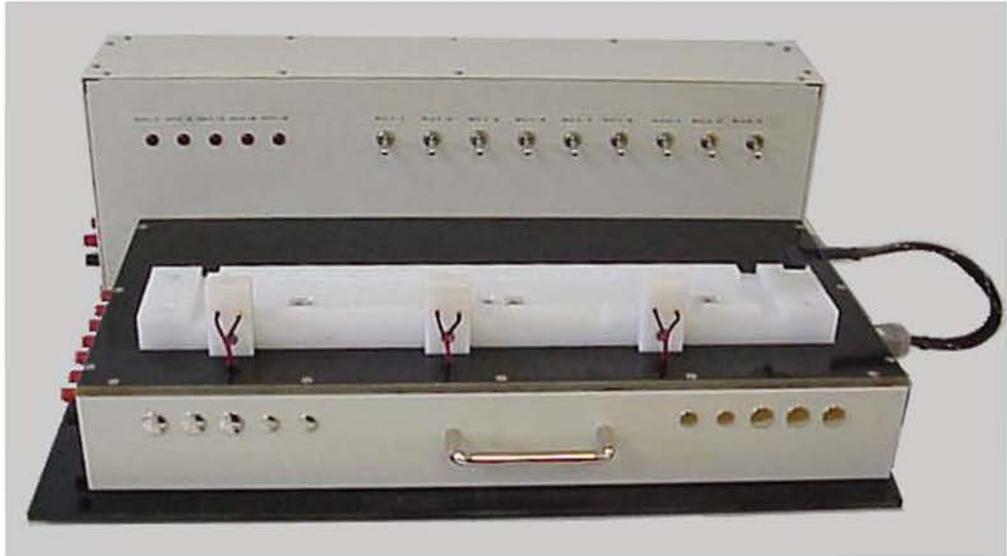
 **FineTest**
www.finetest.com

Pogo-Pin Board Test Fixture

TEST FIXTURES & ITAS



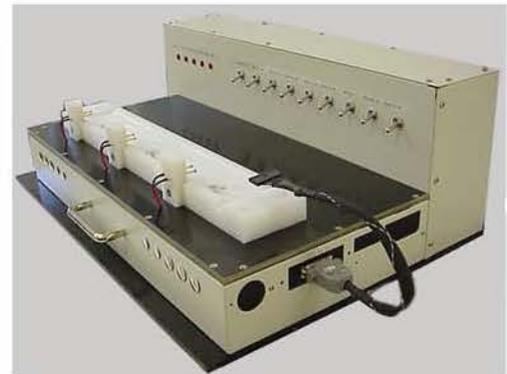
Close-Up of
Pogo-Pins



Front view of Test Fixture



Left side view of Test Fixture



Right side view of Test Fixture

Application: High Volume Production Test

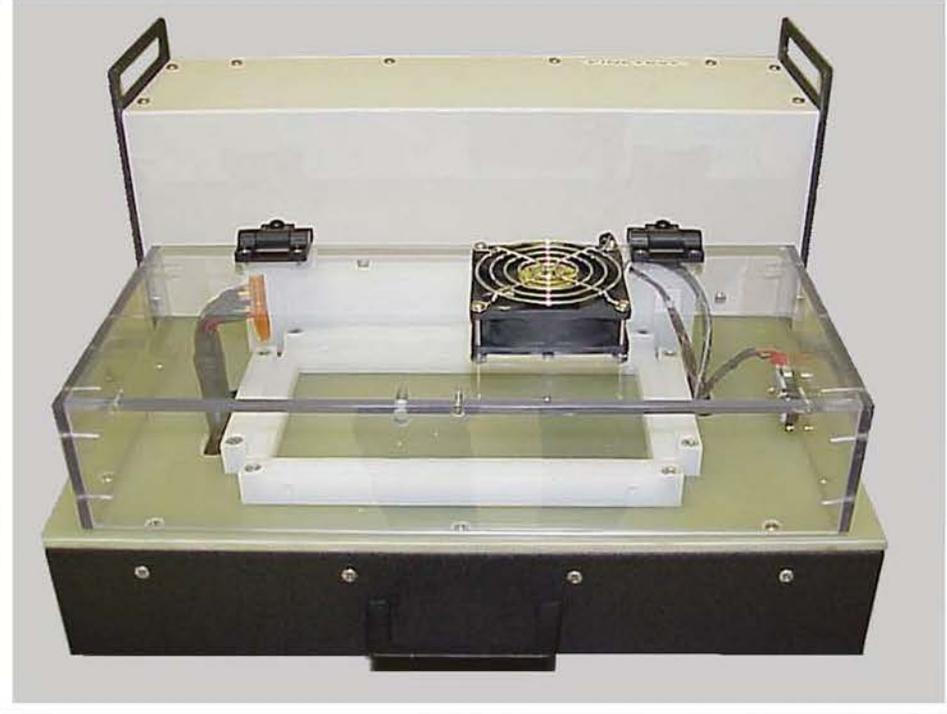
Features:

- Pogo-Pin connection to UUT
- External Banana Jacks for Manual Test Points
- Operator switches to control UUT
- UUT Status LEDs

 **FineTest**
www.finetest.com

Production Test Fixture for Medical Power Supplies

TEST FIXTURES & ITAS



Front view of Test Fixture



Test Fixture with a UUT

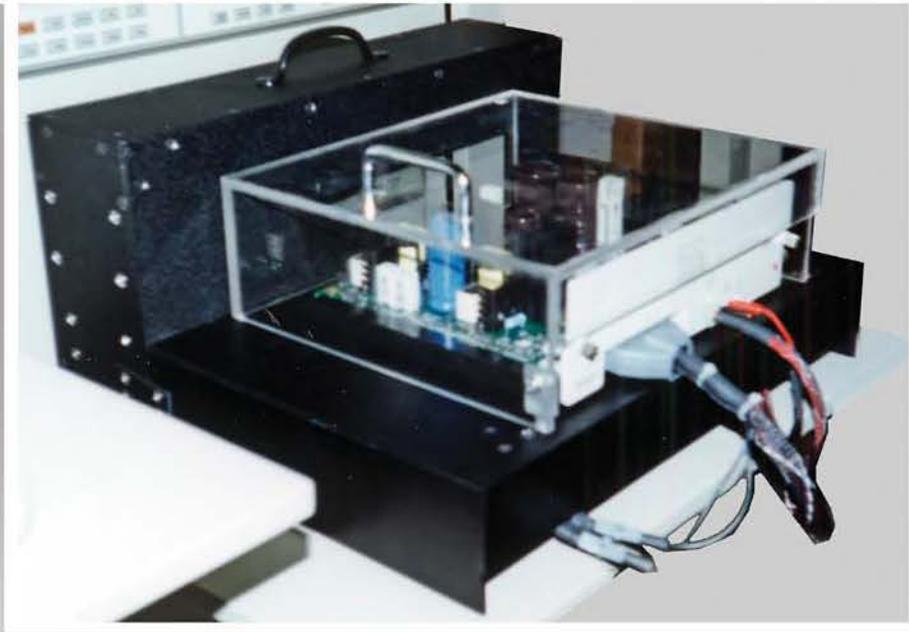


Rear view of Test Fixture

Application: Medical Power Supplies
High Volume Production Test

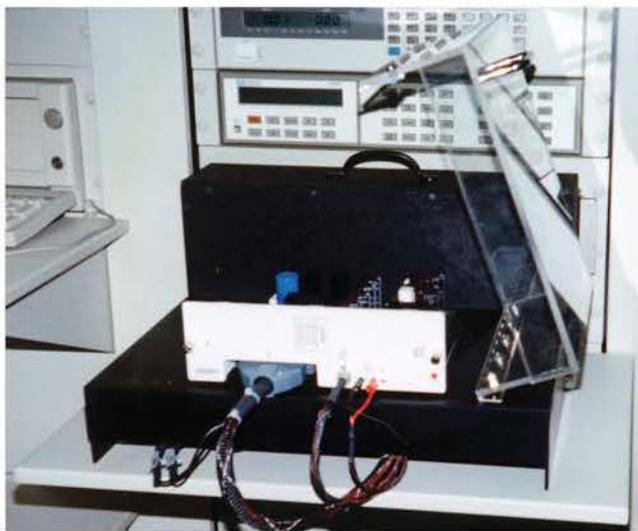
Features: Plug-In Cables to UUT

Production Test Fixture for Telecom DC/DC Converter



Side view of Test Fixture with a UUT

TEST FIXTURES & ITAS



Test Fixture with Safety Cover Open



Test Fixture on ATE

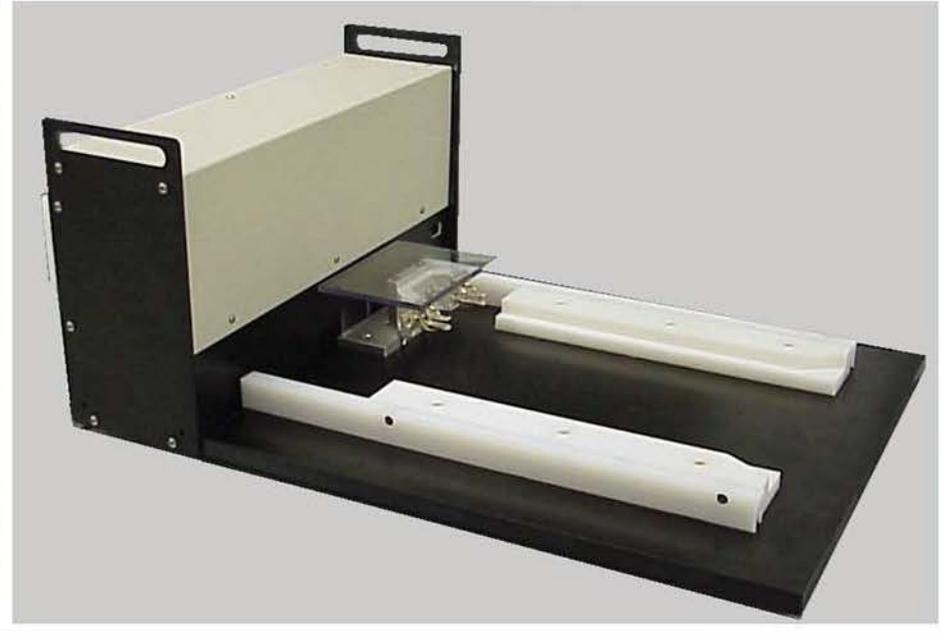
Application: High Volume Production Test

Features: Plug-In cables to UUT
Safety Cover with access to POTs

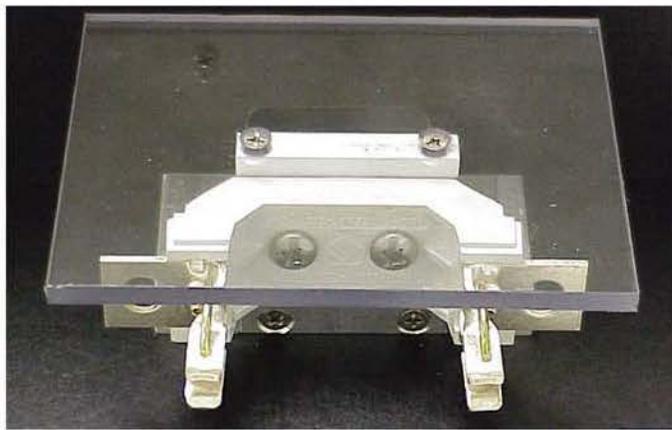
 **FineTest**
www.finetest.com

Production Test Fixture for Telecom Power Supply

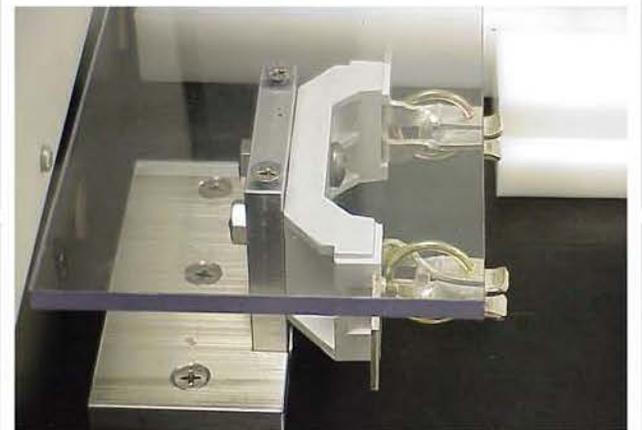
TEST FIXTURES & ITAs



Front view of Test Fixture



Front close-up of UUT Mating Connector



Side view of UUT Mating Connector

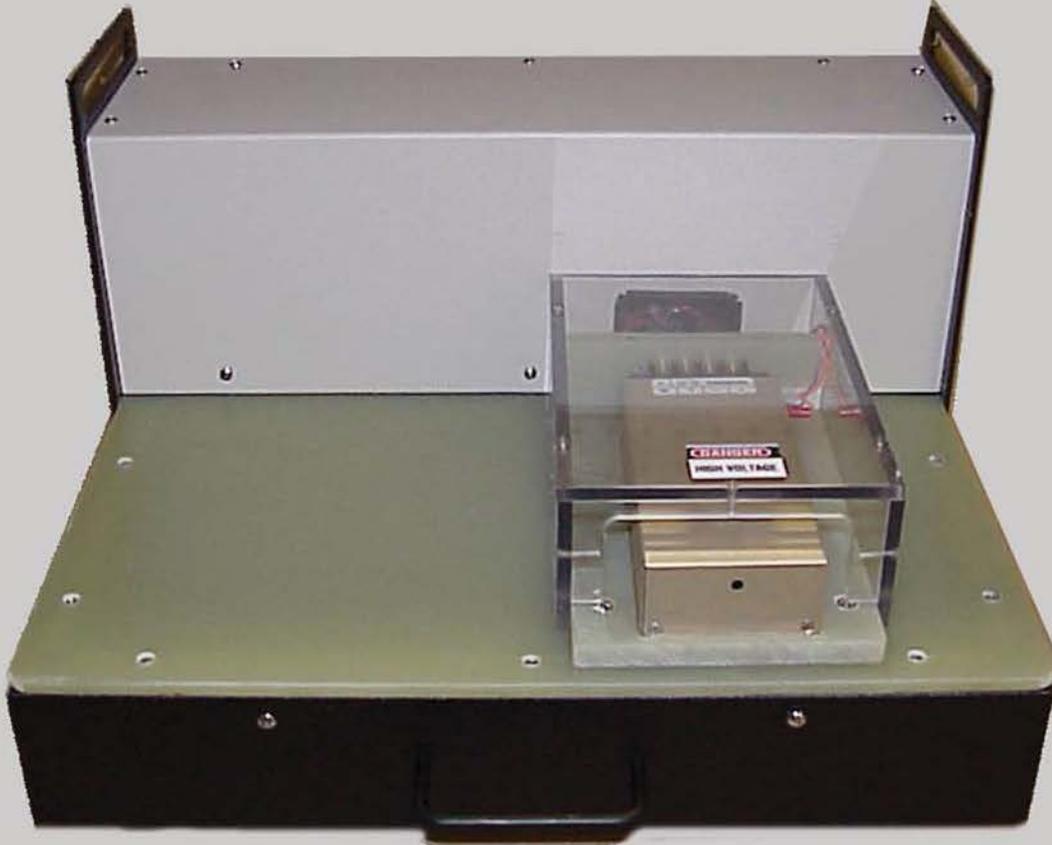
Application: Telecom Power Supplies
High Volume Production Test

Features: Integrated UUT Mating Connector Clips
Custom milled rails for long power supply

 **FineTest**
www.finetest.com

Production Test Fixture for Telecom Power

TEST FIXTURES & ITAS



Test Fixture with UUT



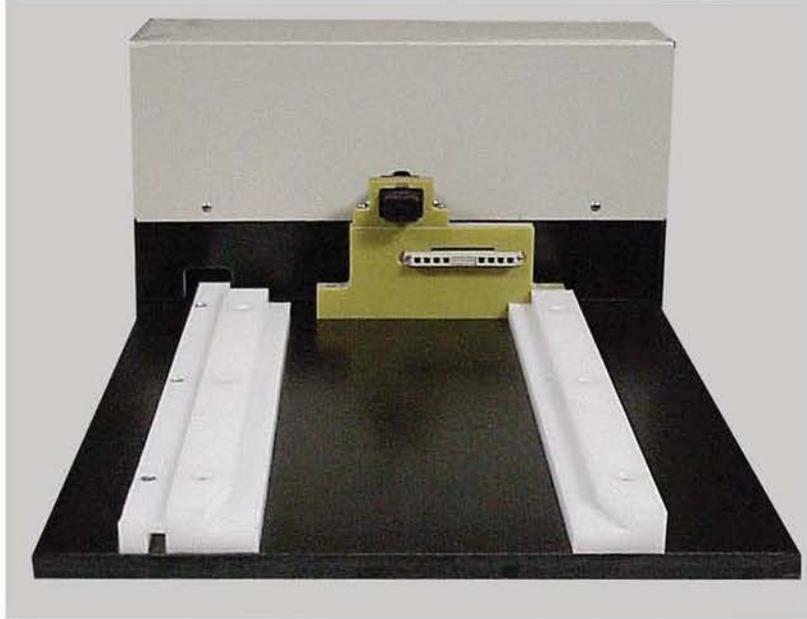
Close-Up of Test Fixture without UUT

Application: High Volume Production Test
Features: Pogo-Pin connection to UUT
Front access for POT Adjust



Production Test Fixture for Telecom 3kW Power Supply

TEST FIXTURES & ITAs



Front view of Test Fixture



Close-Up of UUT Mating Connectors



Front view Test Fixture and UUT



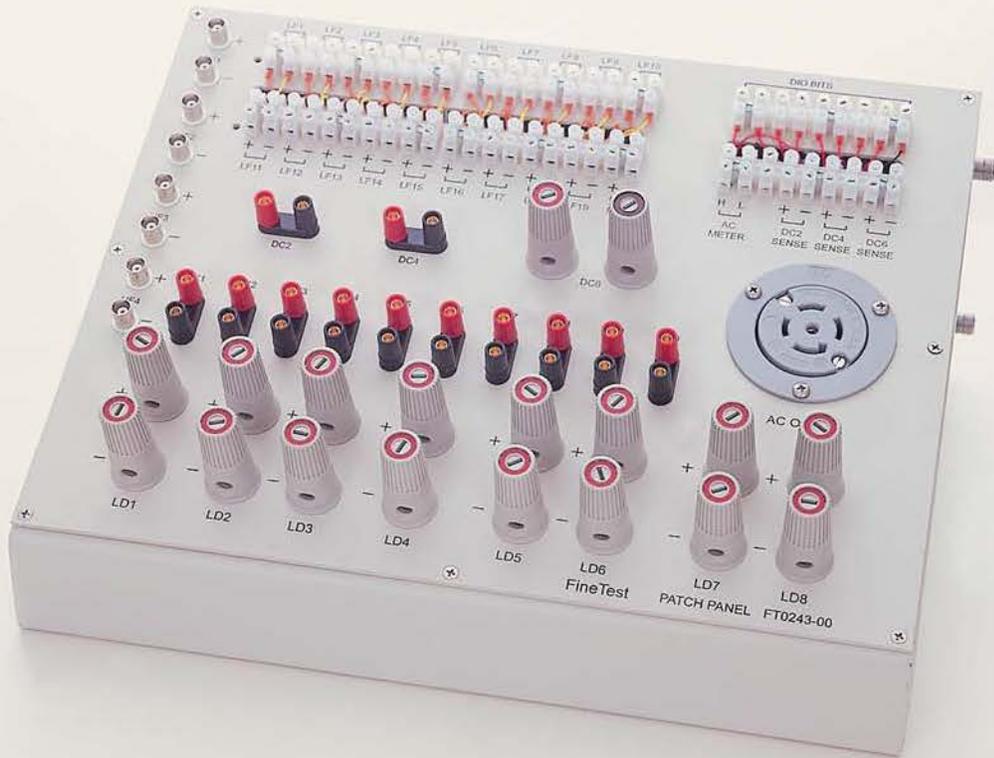
Side view of Test Fixture and UUT

Application: High Volume Production Test

Features: Slide-In to UUT Mating Connectors
Custom milled rails for long power supply



Engineering Quick Connect Virginia Panel Adapter



TEST FIXTURES & ITAS

Front view Engineering Quick Connect Adapter



Engineering Quick Connect Adapter on ATE

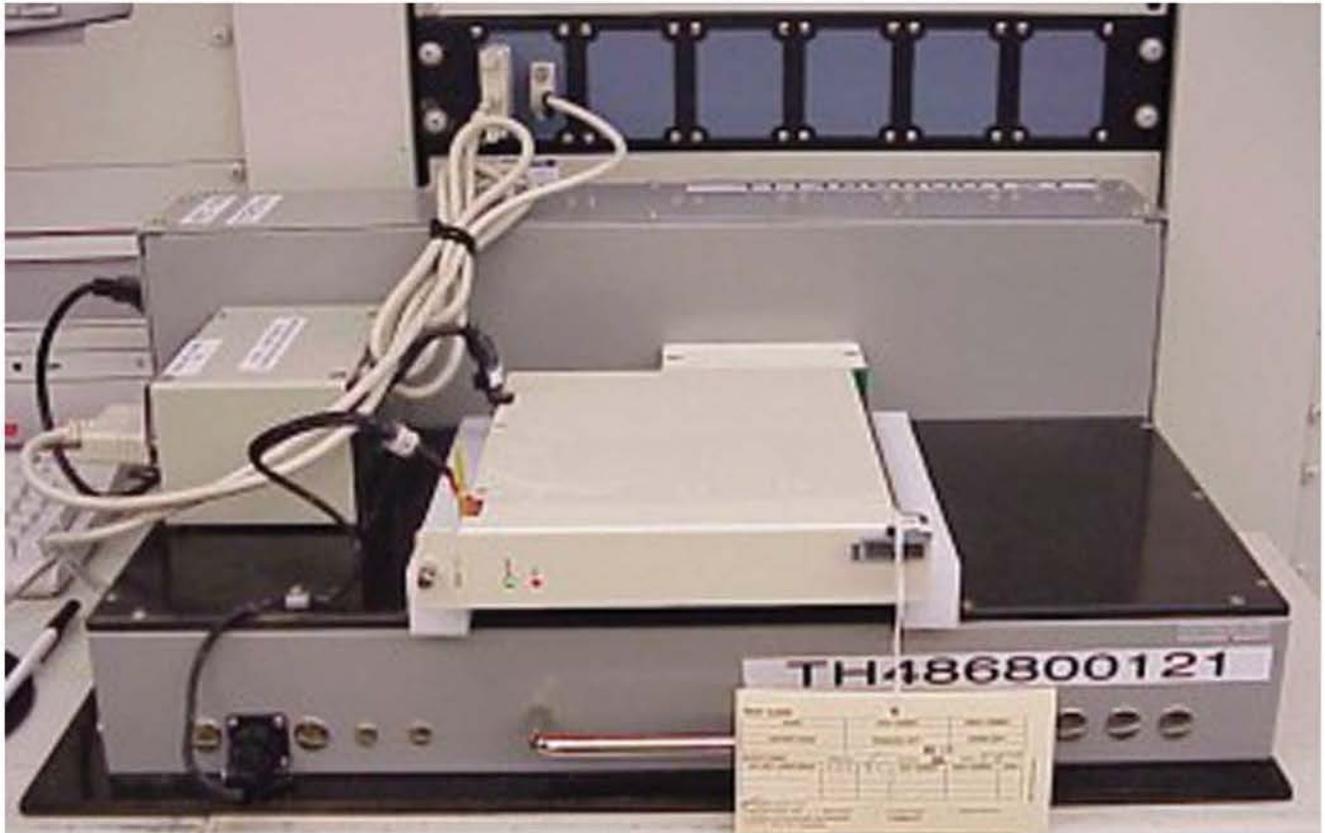
Application: Engineering Lab Testing

Features: Converts ATE Virginia Panel front panel interface to quick connect Banana Jacks, BNCs, AC Connector, and Agilent Electronic Load Jacks

 **FineTest**
www.finetest.com

Production Test Fixture for Telecom Power Modules

TEST FIXTURES & ITAs



Front view of Test Fixture

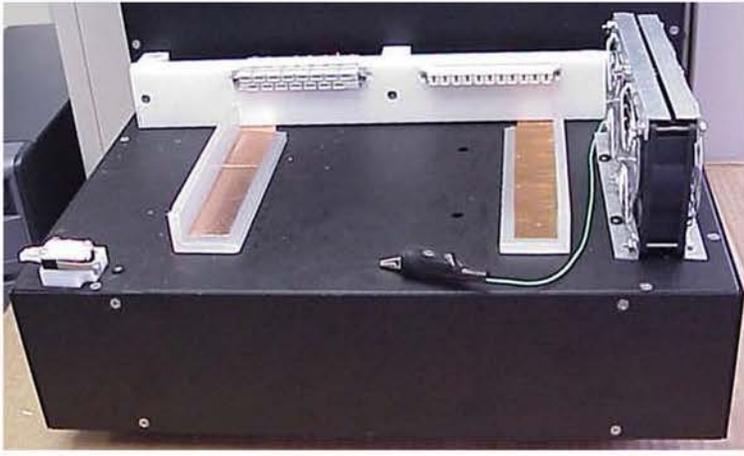
Application: Production Test

Features: Slide-In UUT
Communications Test
EEPROM Programming



Full front view of Test Fixture and UUT on ATE

Production Test Fixture for Military Power Supplies



Mating Connectors and Grounding Rails



TEST FIXTURES & ITAS

Test Fixture installed on ATE

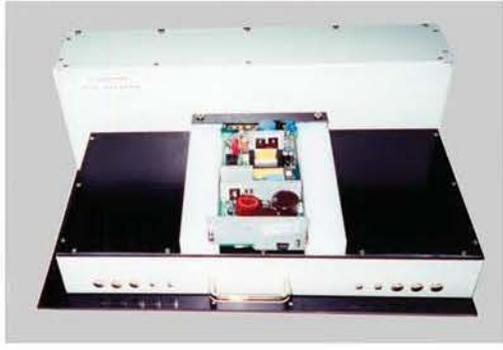
Application: Military Production Test

Features: Slide-In to UUT Mating Connectors
UUT Grounding on Rails

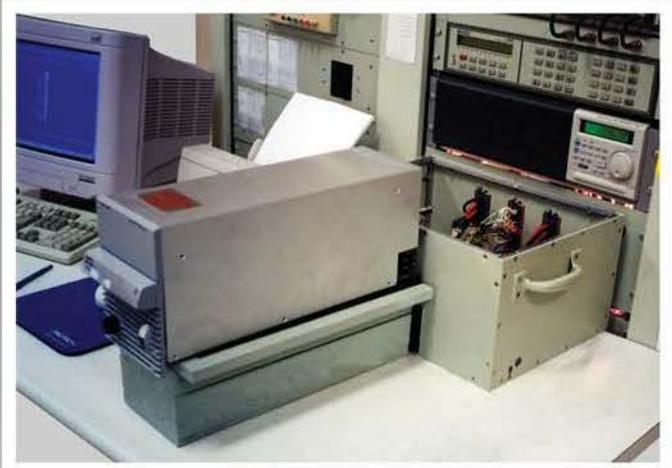
 **FineTest**
www.finetest.com

Various Test Fixtures

TEST FIXTURES & ITAS



Power Module Test Fixture



Plug-In UUT Test Fixture



Dual UUT Test Fixture



Cable to UUT Test Fixture



Dual UUT Test Fixture

Various Test Fixtures



Cable to UUT Test Fixture



Self-Test Fixture with Cover open



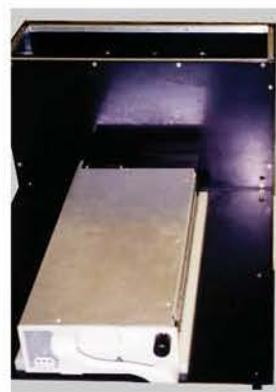
Cable to UUT Test Fixture



Plug-In UUT Test Fixture



Cable to UUT Test Fixture



Slide-In Test Fixture

TEST FIXTURES & ITAS

Interface Test Adapters (ITA) for Military Power Supplies

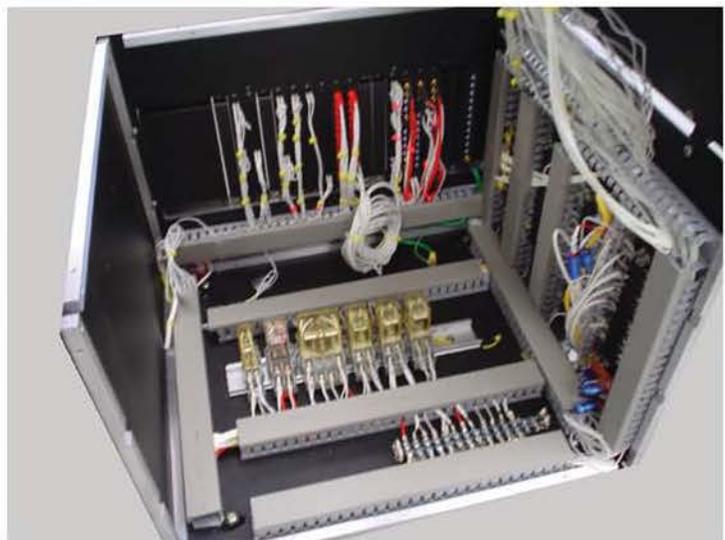
TEST FIXTURES & ITAs



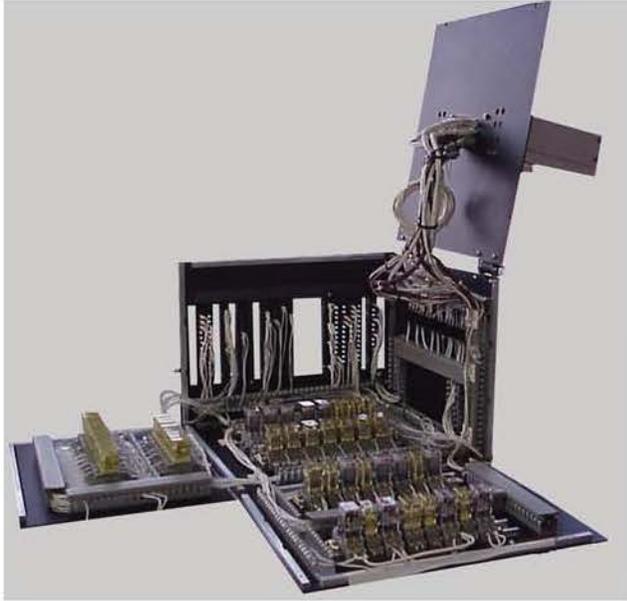
Tester with ITA installed



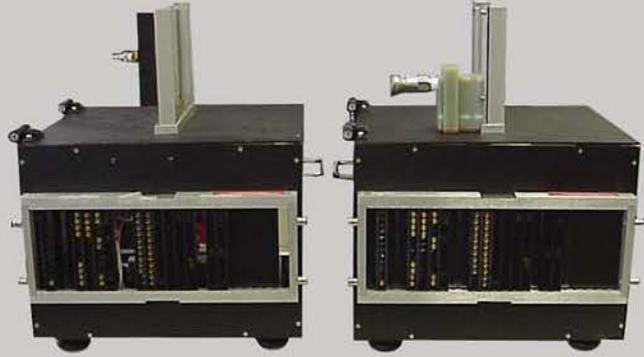
ITA with hookup for Thermal Hood on top where the UUT is plugged in



ITA with the Top Cover open and front panel removed to show wiring



ITA for multiple output supply with Top Cover and Side Panels open to show wiring and ease of maintenance



Rear view of duplicate ITAs with alternate Thermal Hood hookups



Front view of duplicate ITAs with front panels removed to show wiring

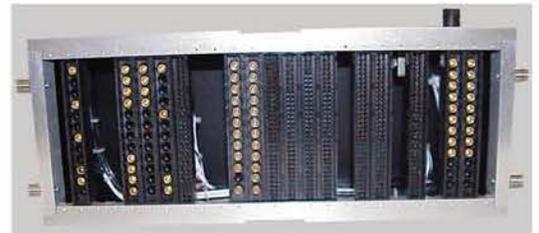
System Self-Test ITA



Self-Test ITA with cover open to show wiring



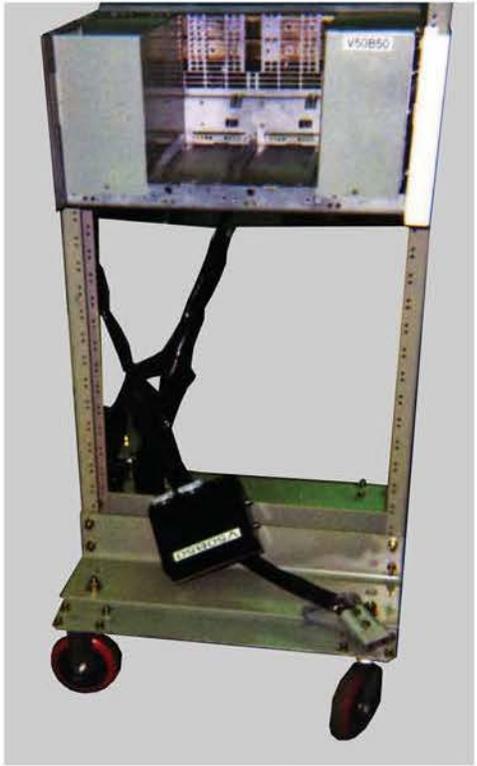
Front view of Self-Test ITA



Connector side of Self-Test ITA

Production Test Fixtures for Telecom Modular Rectifiers

TEST FIXTURES & ITAS



Front view of Test Fixture



Test Fixture with UUT on Production Floor

Application: Production Test

Features: Rolling Cart and Cable



Rear view Test Fixture on Production Floor

Production Test Fixtures for Medical Power Supplies

TEST FIXTURES & ITAS



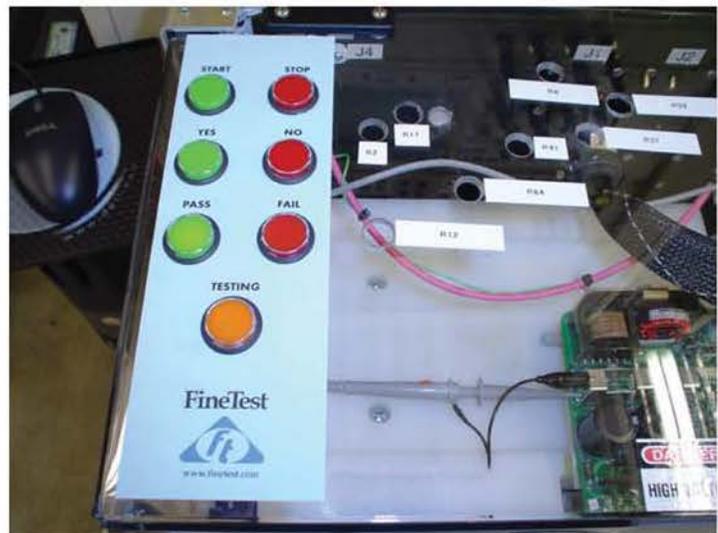
Test Fixture connected to HIPOT



Duplicate Test Fixtures on production floor



Close-Up Test Fixture with UUT



Close-Up of Test Fixture showing Push Buttons and Indicator Lights for easy Operator Interface

Various Test Fixtures

TEST FIXTURES & ITAs



Quick Connect Fixture with UUT



Quick Connect Test Fixture



Quick Connect Fixture on production floor



SMT Board Test Fixture



Test Fixture with UUT

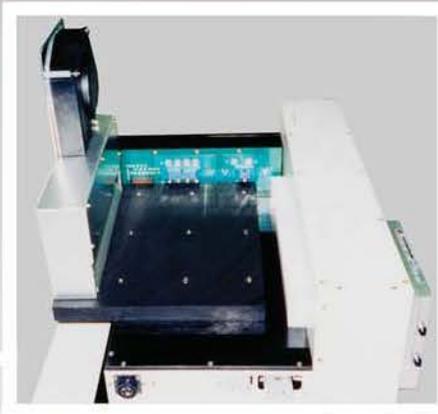
Various Test Fixtures



Test Fixture on ATE



Test Fixture with Cover open



Side entry PCB Mating Connectors



Fixture with PCB Mating Connectors



Cart and Cable Test Fixture with UUT

TEST FIXTURES & ITAS



FineTest Production Floor



FineTest Building at 1 Industry Drive



FineTest

www.finetest.com



FineTest 1 Industry Drive, Palm Coast, FL 32137 Tel: (386) 446-0463 Fax: (386) 446-0465 email: sales@finetest.com