



## 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



# 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](mailto: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*

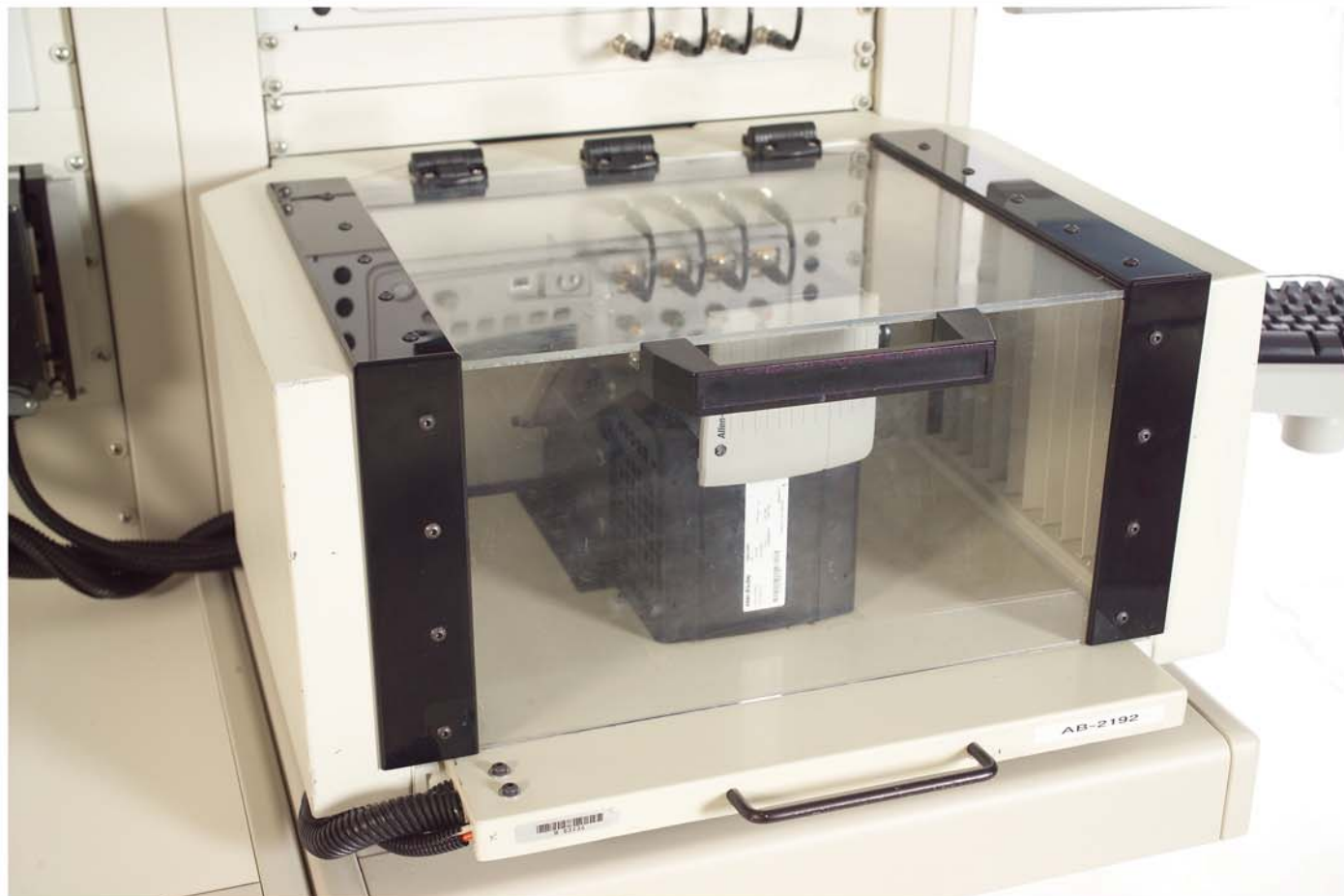


*Self-Test Fixture with rear cover closed*



*Fixture front with Virginia Panel Connectors*

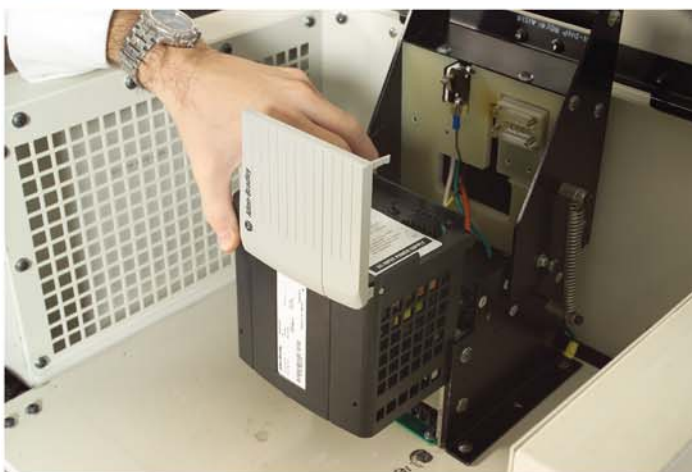
# Production Test Fixture with Built-In Thermal Chamber



TEST FIXTURES & ITAs



*Test Fixture with cover open*

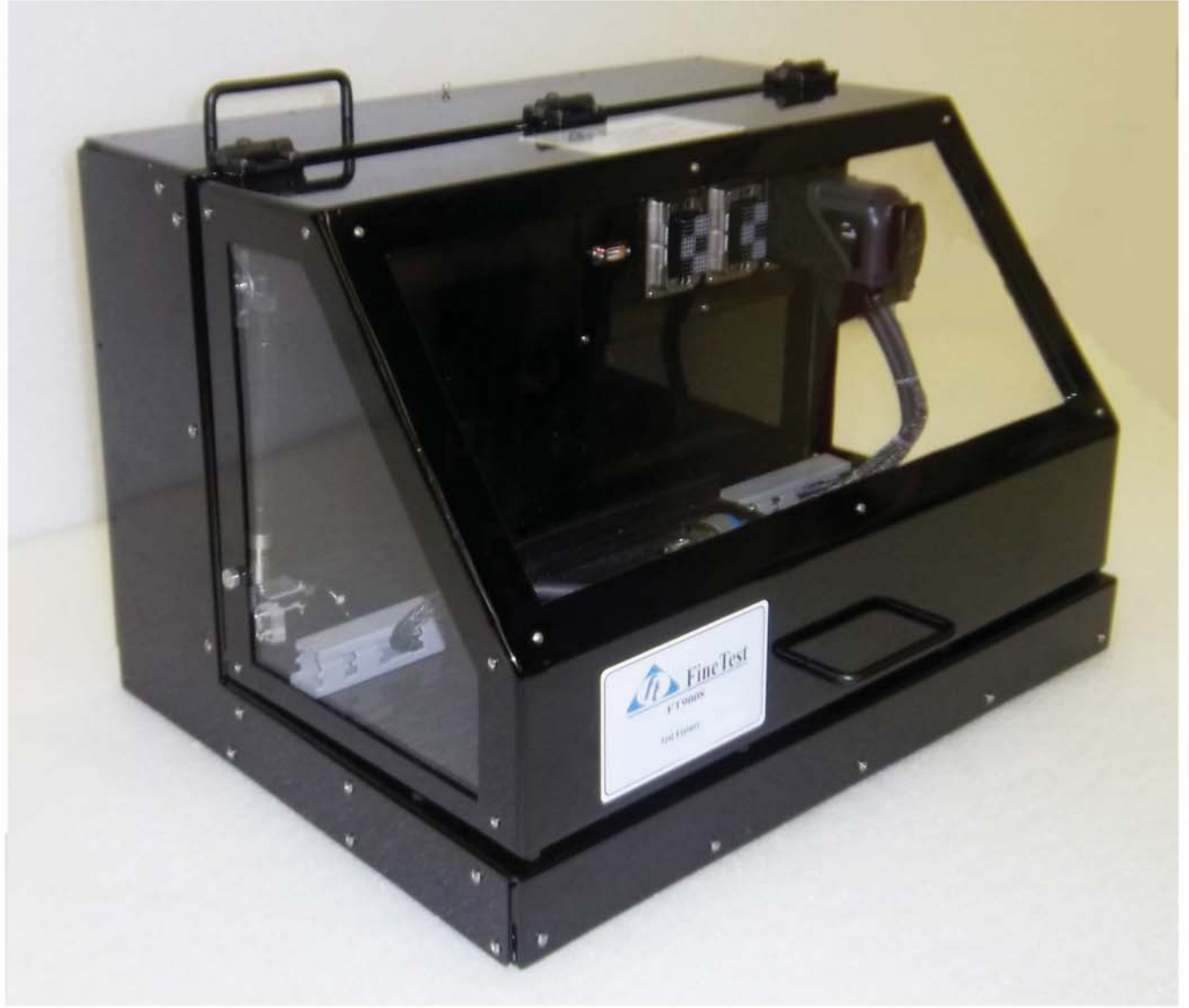


*Installing a UUT into the Test Fixture*

*Test Fixture  
with a UUT  
Installed*

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

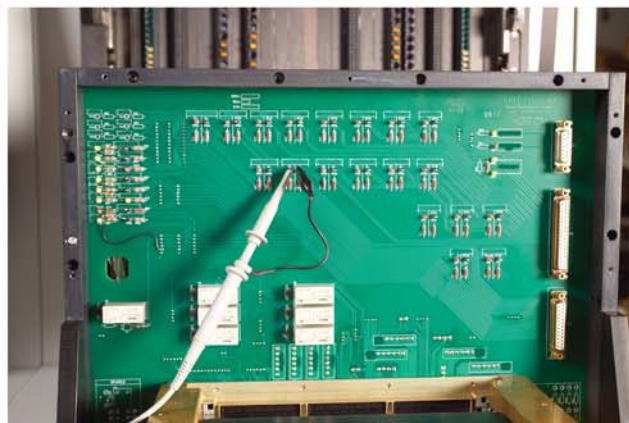
TEST FIXTURES & ITAs



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



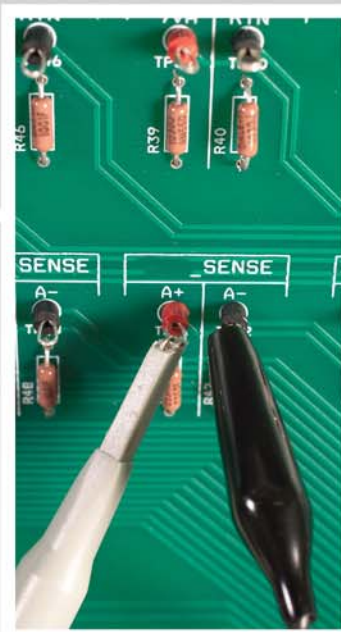
## TEST FIXTURES & ITAS



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



### Rear View



Adapter Opens to allow  
easy access to wiring

# 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

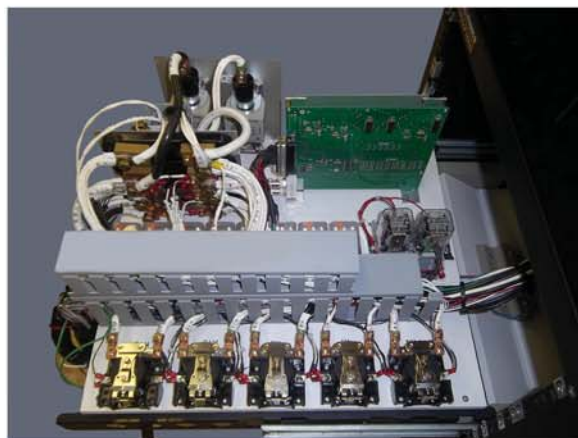
TEST FIXTURES & ITAs



*Front view Roll-Around ATP Fixture*

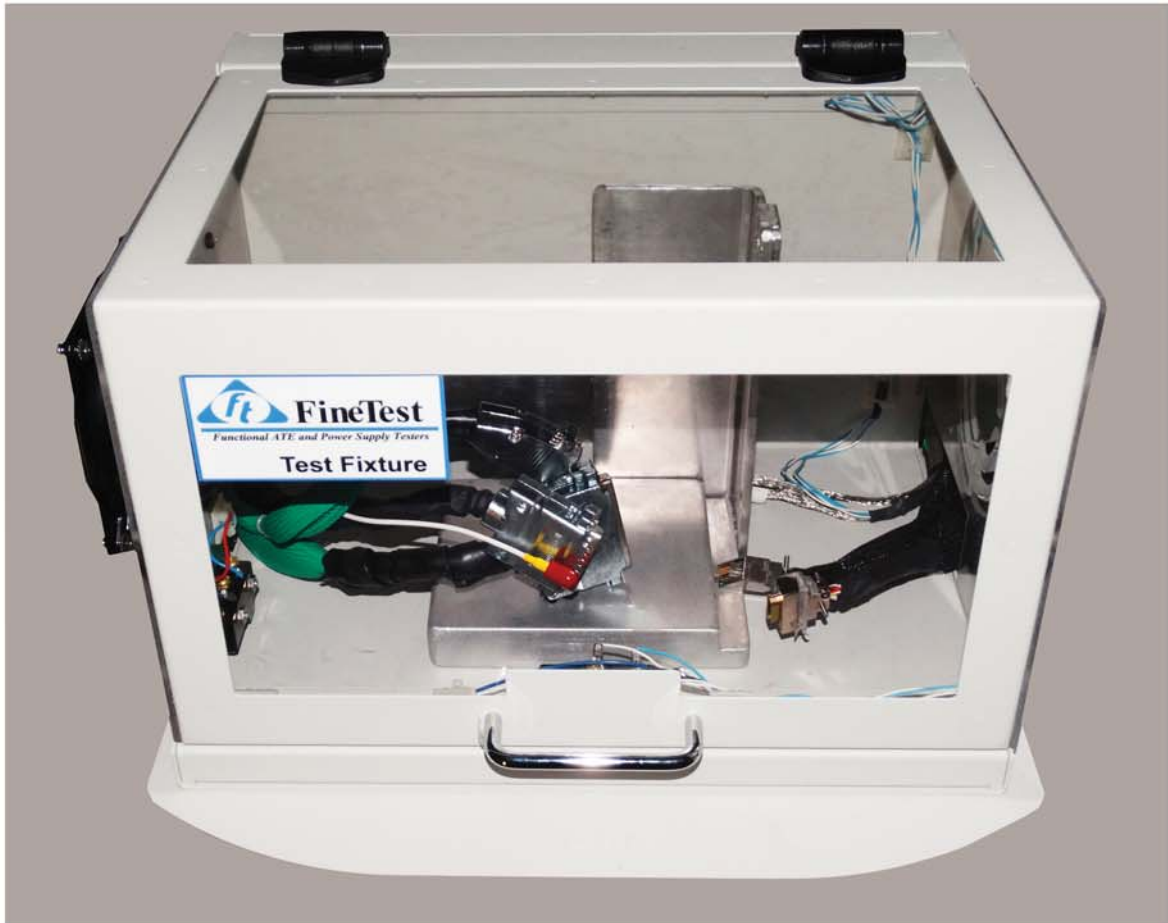


*Rear view with Safety Cover Open  
showing Cable to Connect Fixture to ATE*



*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*

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# 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*

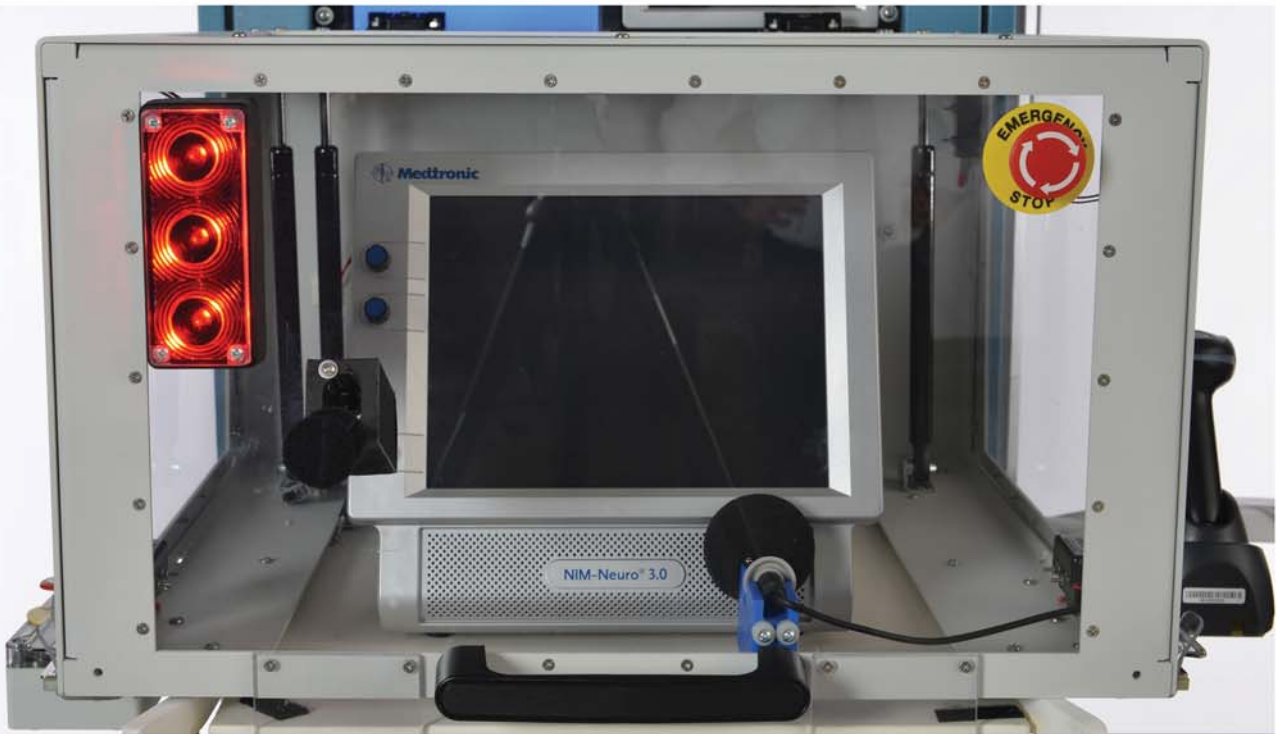


*Installing a UUT*

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# 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**  
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# 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 Plate 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*



# Self-Test Fixture for Functional ATE

TEST FIXTURES & ITAs

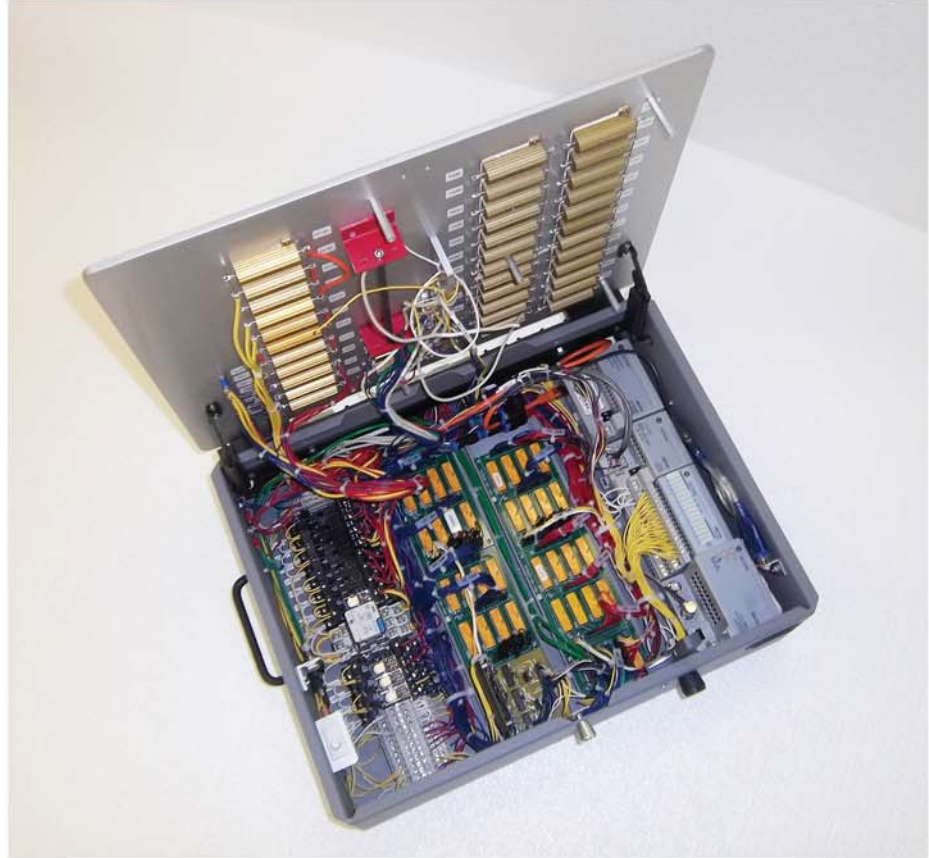


*Self-Test Fixture with cover open showing:  
Resistor Loads, Relay and Digital IO Controls,  
Ethernet and USB Test Devices*

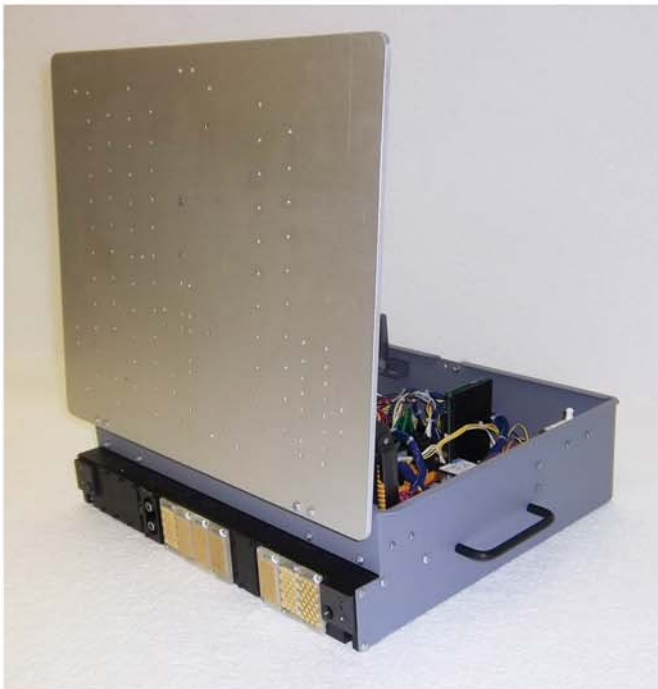


# Build to Print Test Fixture for System Self-Test

TEST FIXTURES & ITAS



*Top View with Cover Open showing Wiring*



*Gen-Rad Connector Side with Cover Open*



*Fixture Front with cover closed*

# Production Test Fixture for Telecom Power

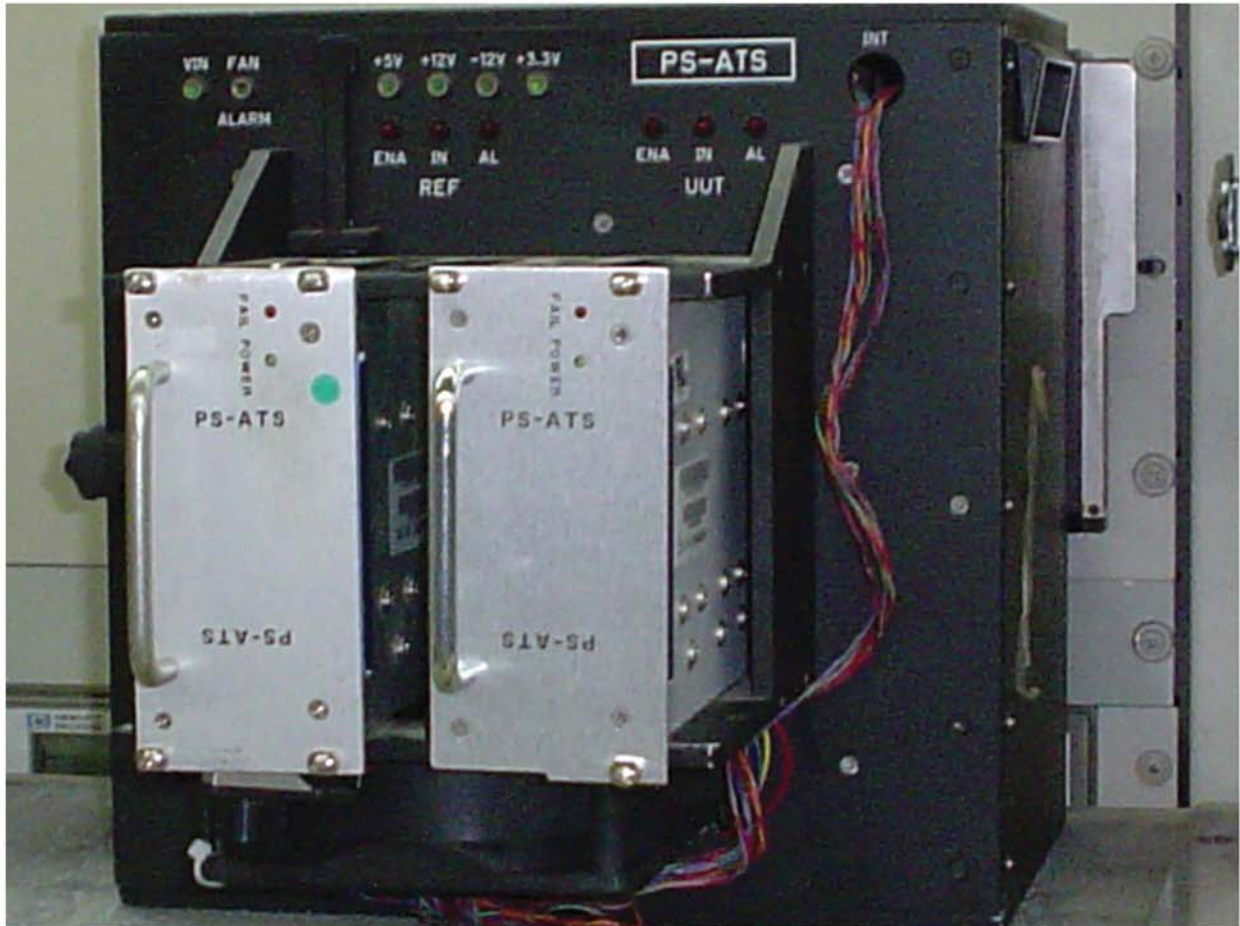
TEST FIXTURES & ITAs



*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

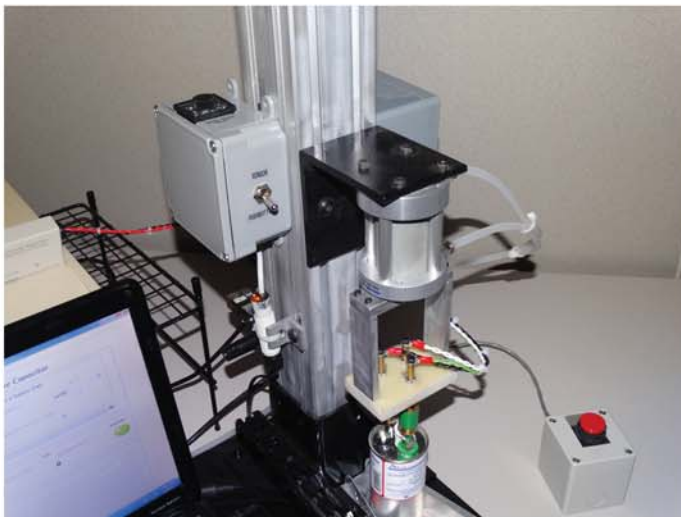


# Vertical Cylinder Fixture for Capacitor Production Test

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*

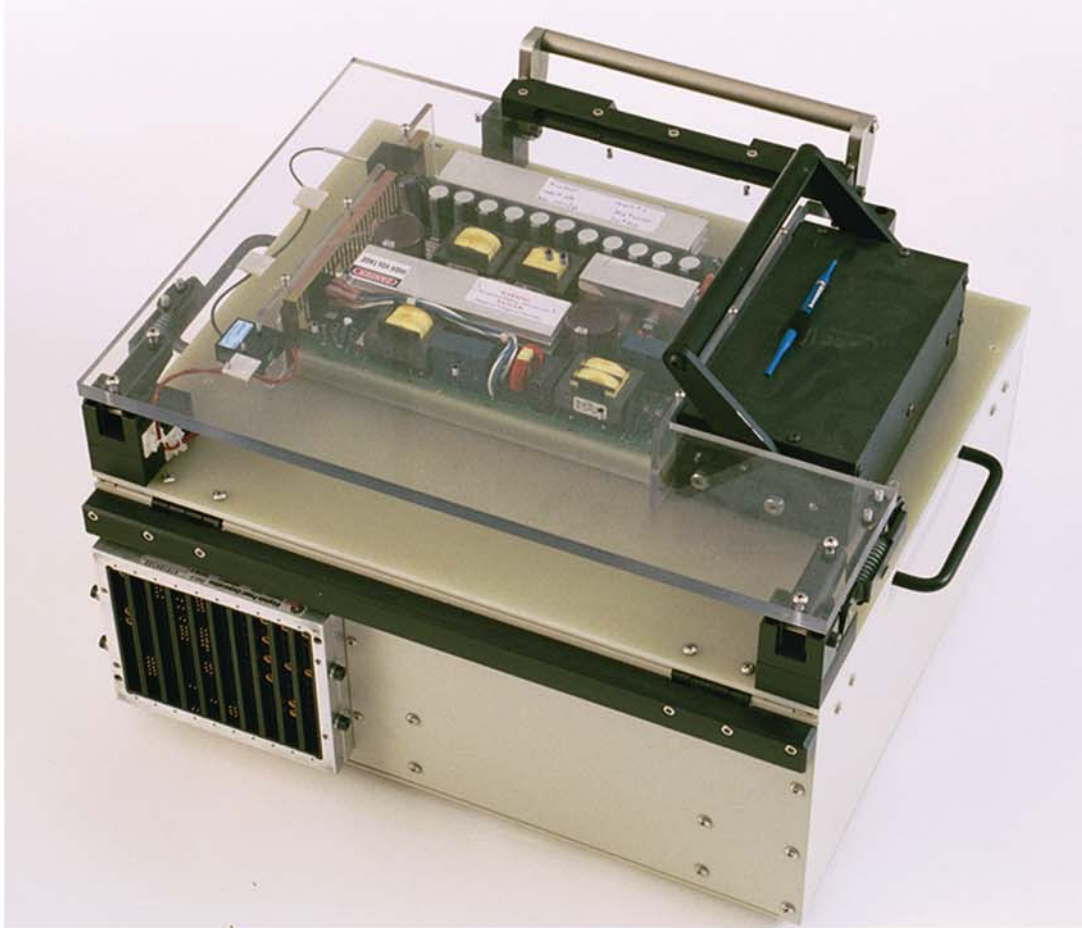
*Close-Up of Test Fixture  
with a UUT Installed*

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# High Volume Production Test Fixture

TEST FIXTURES & ITAS

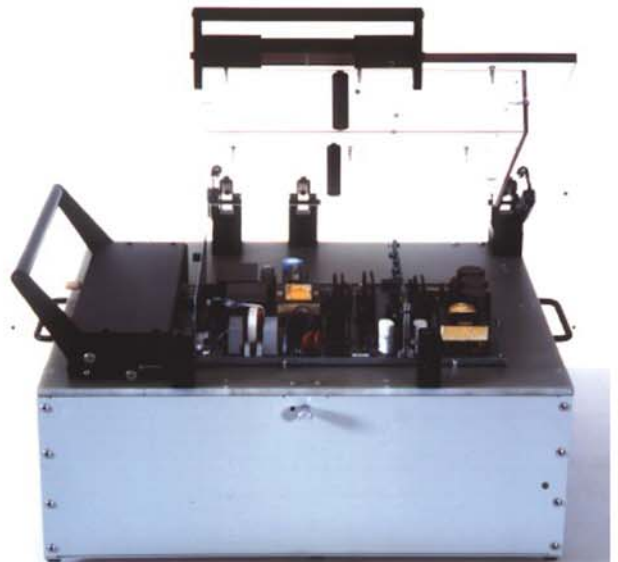


*Test Fixture with UUT*

**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.

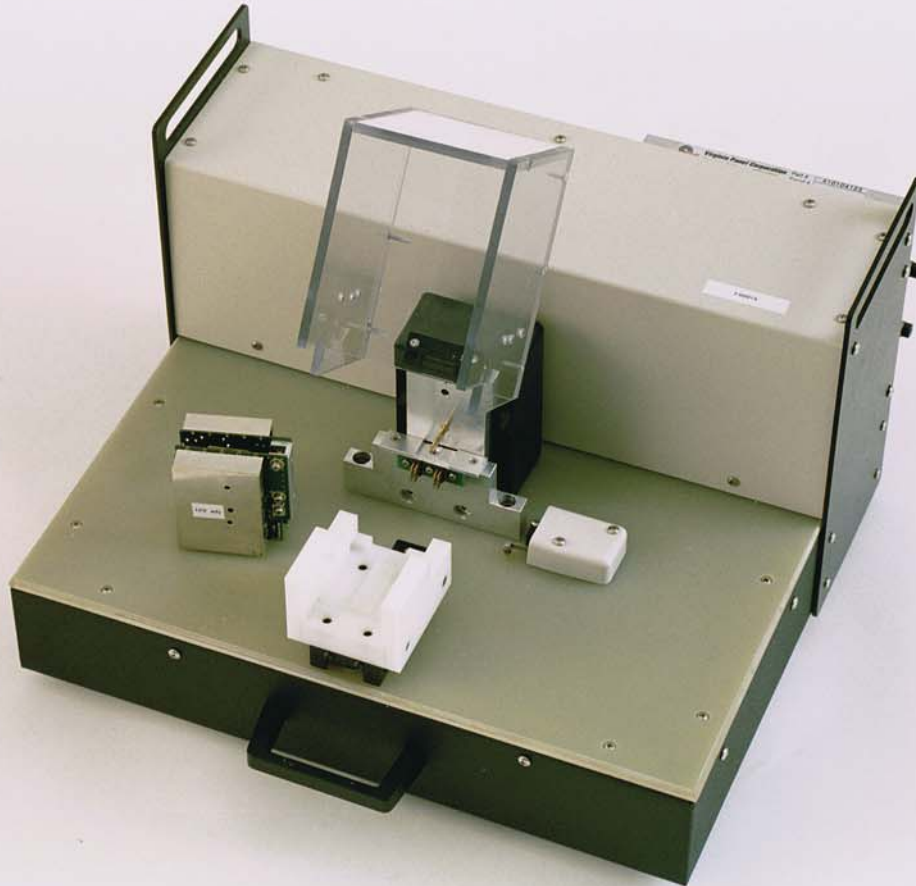


*Test Fixture with Safety Cover Open*

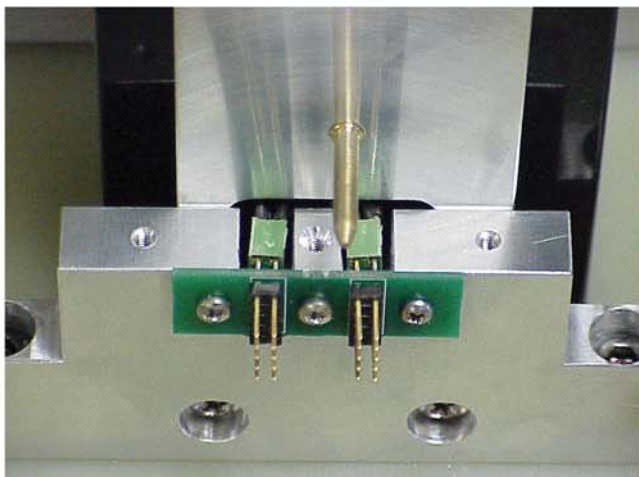


# Production Test Fixture for Telecom Power Supplies

TEST FIXTURES & ITAS



*Front view of Test Fixture with UUT*



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

**Application:** High Volume Production Test

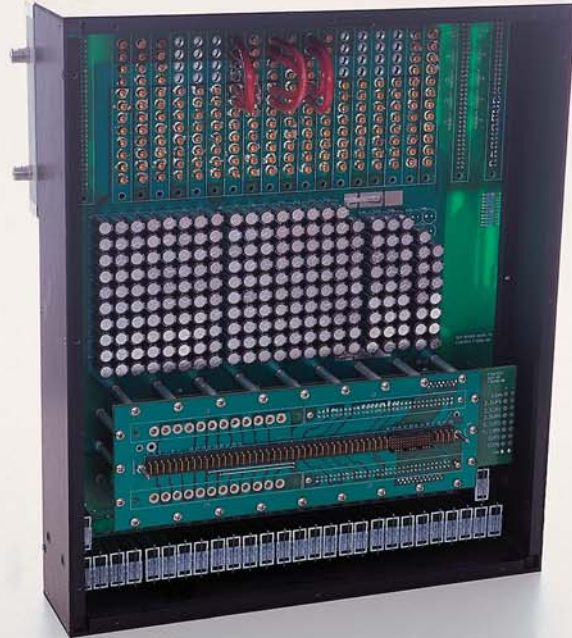
**Features:**  
Sliding plug for UUT  
UUT Mating Guide Pin  
Safety Cover

# 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

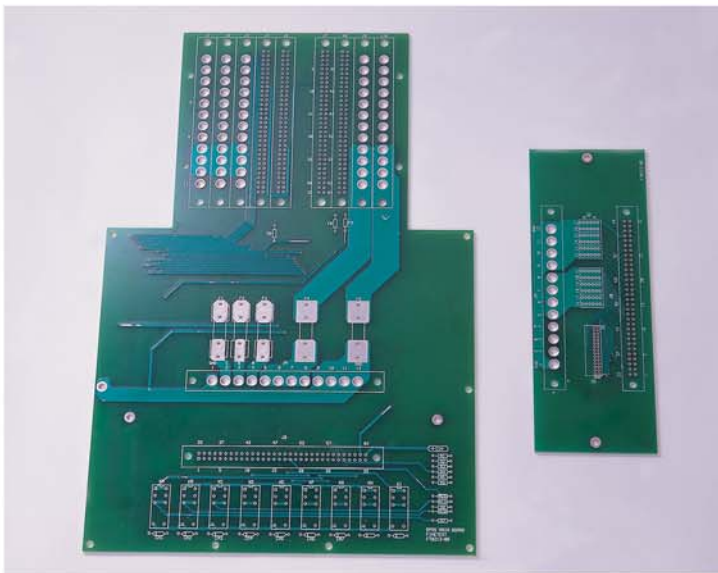


# Production Test Fixture for Bulk Power Regulators



TEST FIXTURES & ITAS

*Test Fixture with UUT on Production Floor*



*PCBs used in Test Fixture*

**Application:** Production Test

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

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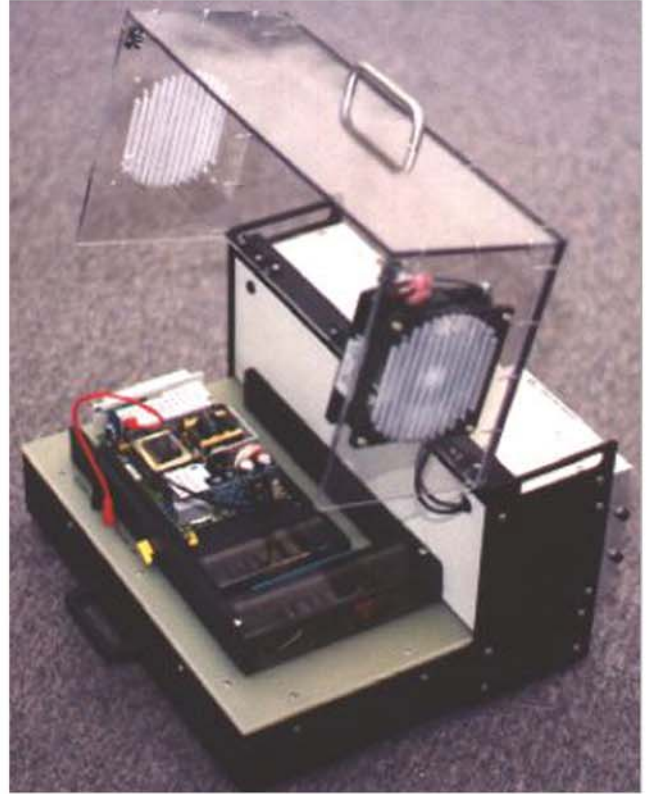


# FineTest Test Fixture Kit for Open-Frame Power Supplies

TEST FIXTURES & ITAS



*FineTest Test Fixture Kit with UUT*



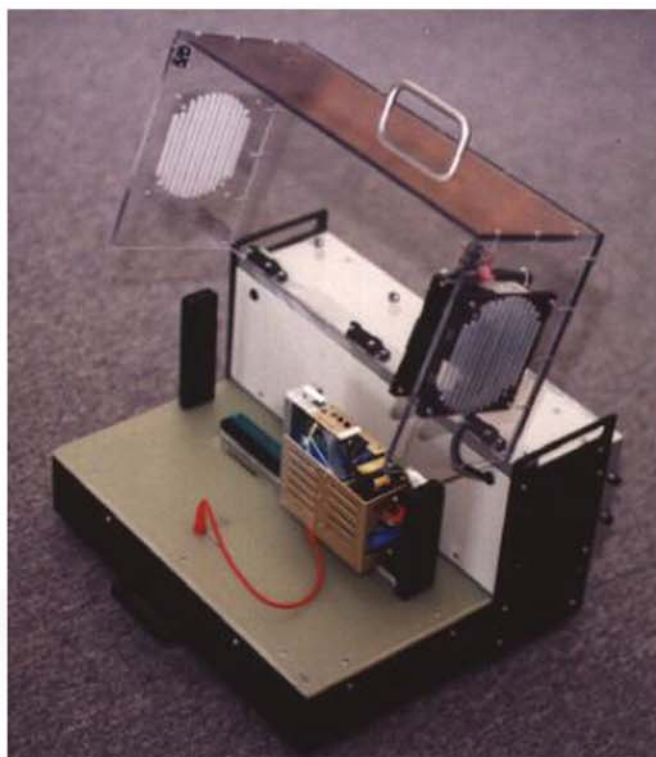
*Test Fixture with Test Probes to Test Points inside UUT*

**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



*FineTest Test Fixture Kit with UUT*



*FineTest Test Fixture Kit with UUT*



# Production Test Fixtures for Telecom Power Supplies

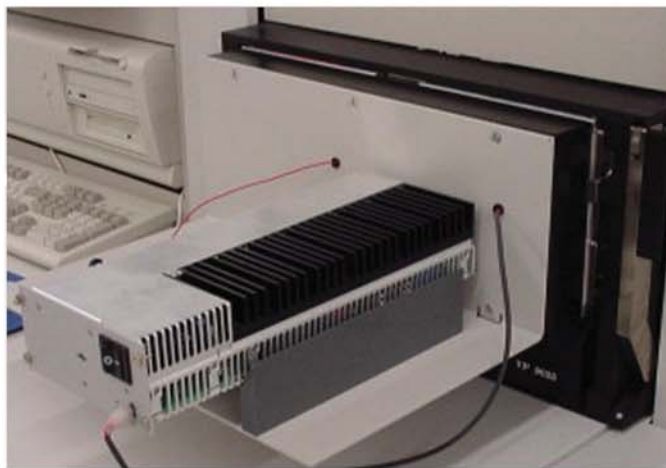
TEST FIXTURES & ITAS



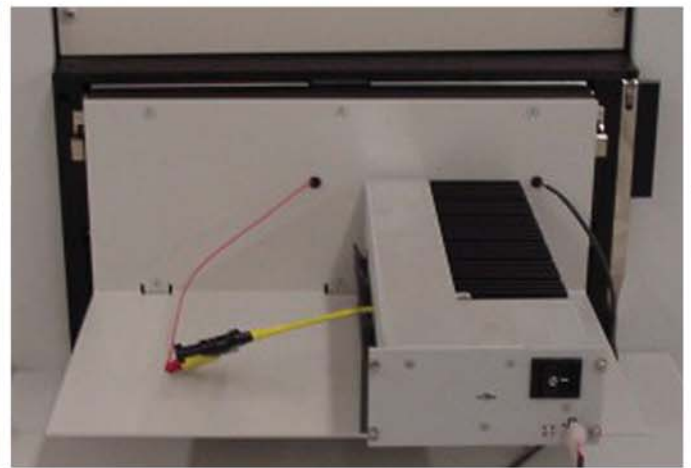
*Test Fixture with UUT*



*Test Fixture with a Fan  
to test UUT Fan Output*



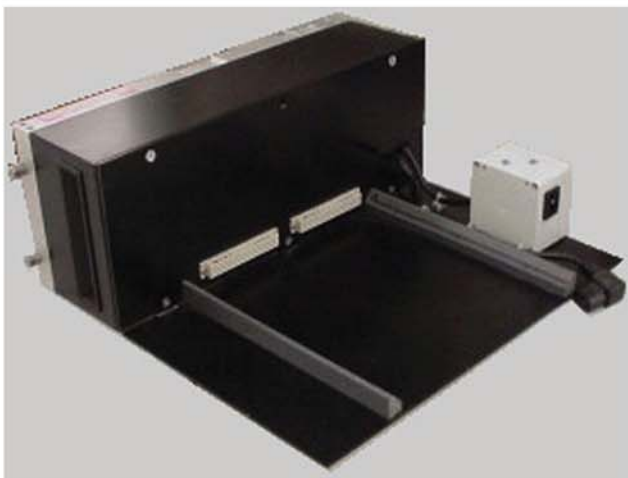
*Side view of a Test Fixture*



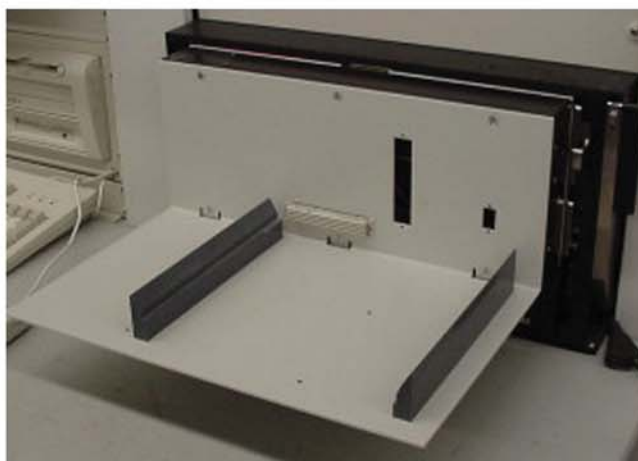
*Front view of a Test Fixture with Test Probe*

**Application:** High Volume Production Test

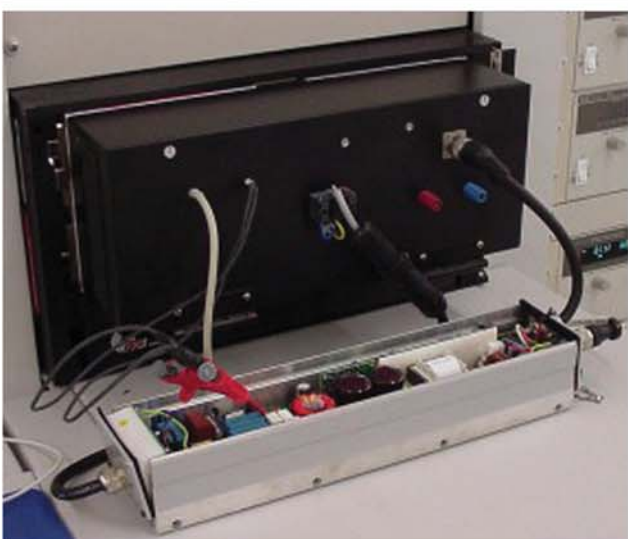
**Features:** Easy UUT Plug In Test Fixtures  
Pogo-Pin Test Fixtures for Boards



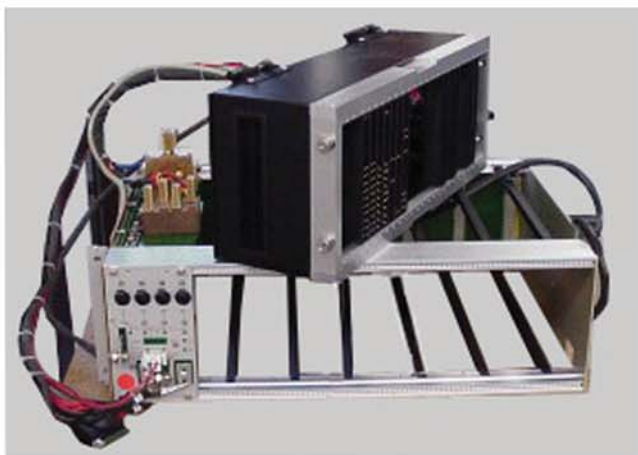
*Plug-In Test Fixture*



*Plug-In Test Fixture*



*Test Probes inside UUT*



*Card Cage Test Fixture*



*Side view Pogo-Pin Board Test Fixture*

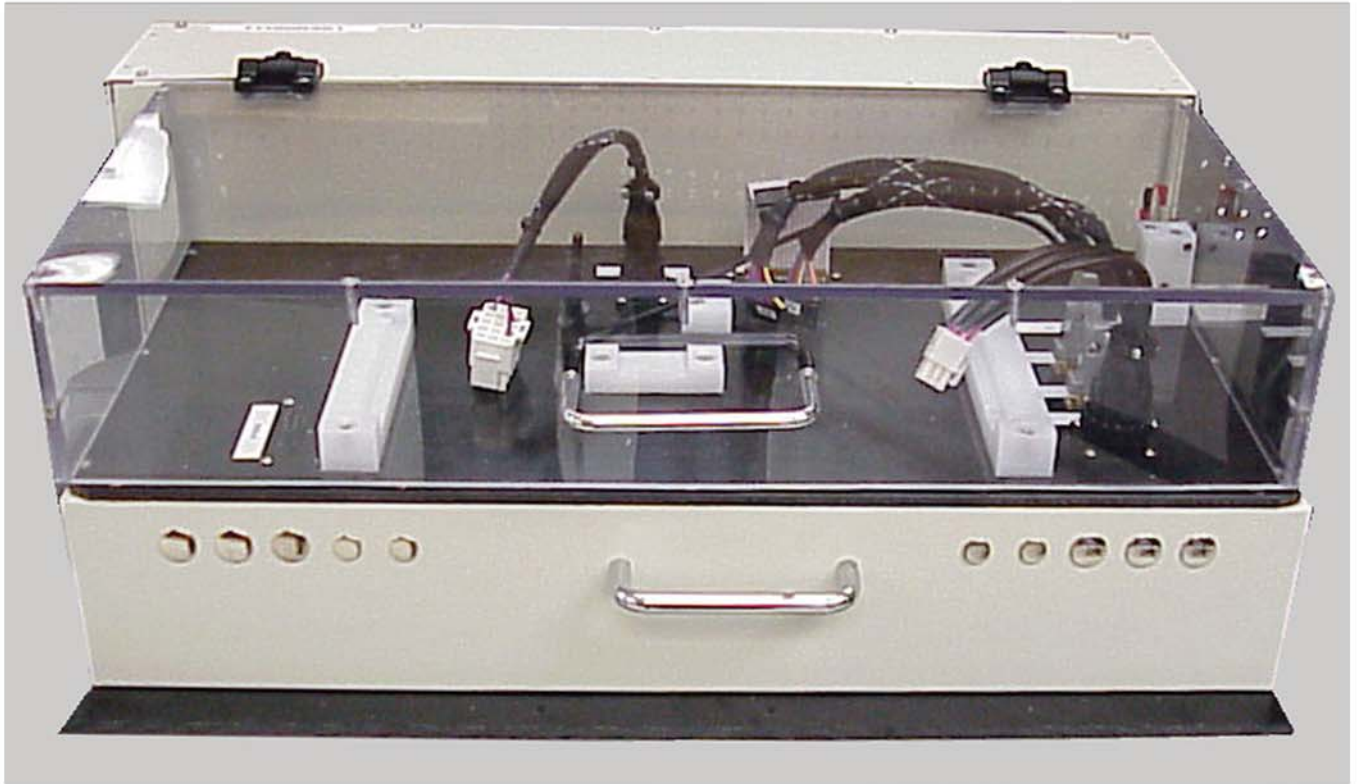


*Front view Pogo-Pin Board Test Fixture*



# Sub-Assembly Boards Test Fixture

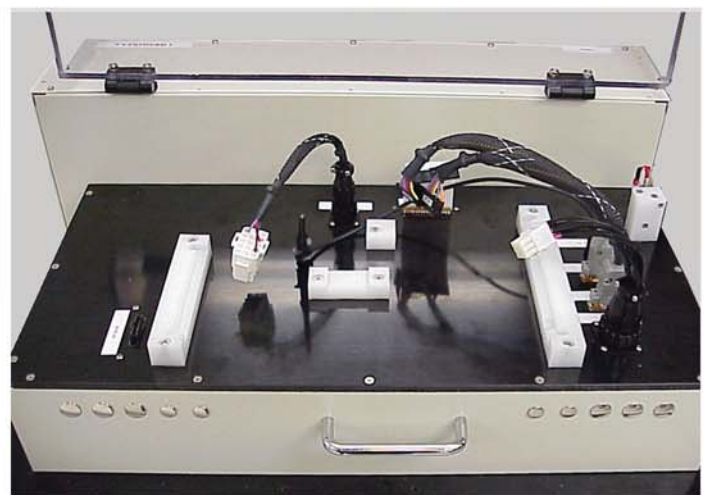
TEST FIXTURES & ITAs



*Sub-Assembly Board Test Fixture*

**Application:** Sub-Assembly Board Test

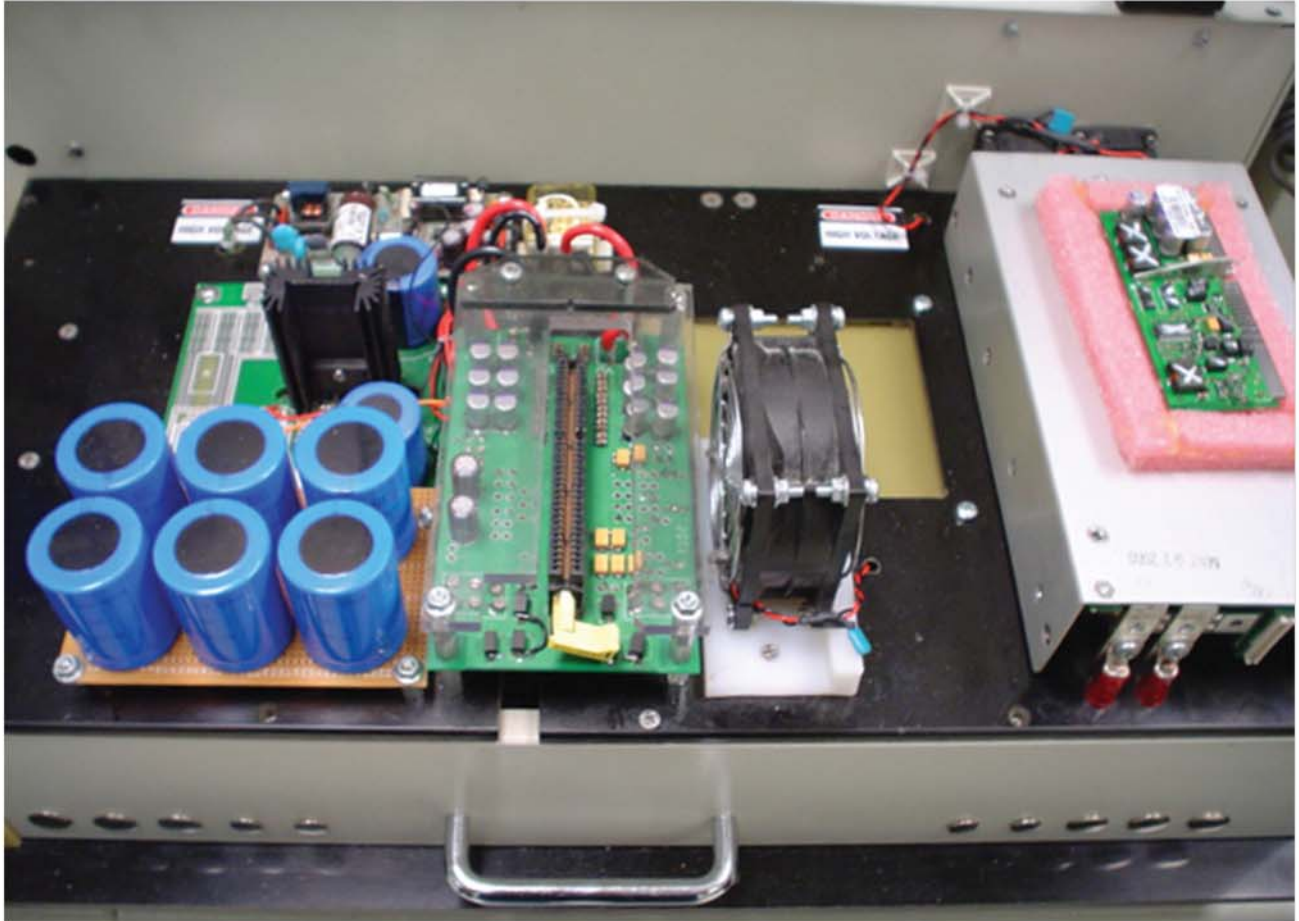
**Features:** Plug-In Cables to UUT  
Multiple Board Types  
on same Test Fixture



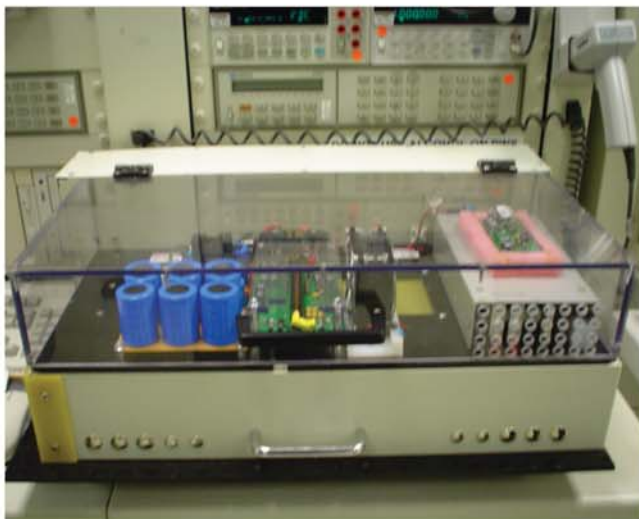
*Test Fixture with Safety Cover Open*

# Production Test Fixture for Voltage Regulator Modules

TEST FIXTURES & ITAS



*Top view of Test Fixture with Safety Cover Open*



*Test Fixture with Safety Cover Closed*

**Application:** Voltage Regulator Modules  
High Volume Production Test

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

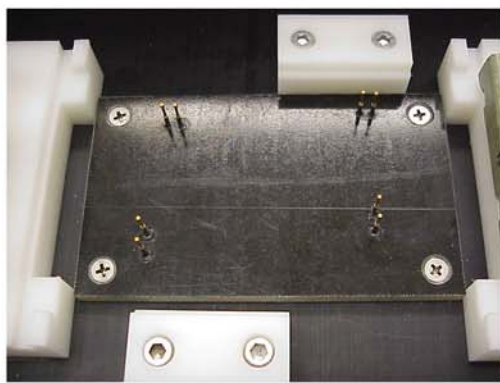


# Pogo-Pin Test Fixture for Sub-Assembly Board Test

TEST FIXTURES & ITAS



*Side view of Test Fixture*



*Close-Up of Pogo-Pins*



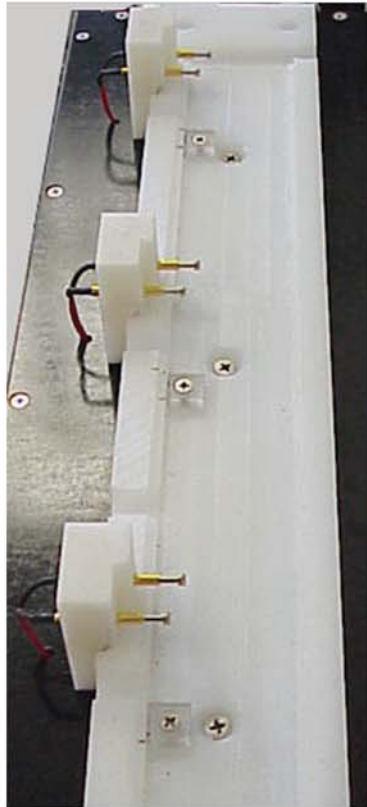
*Front view of Test Fixture*

**Application:** High Volume Production Test

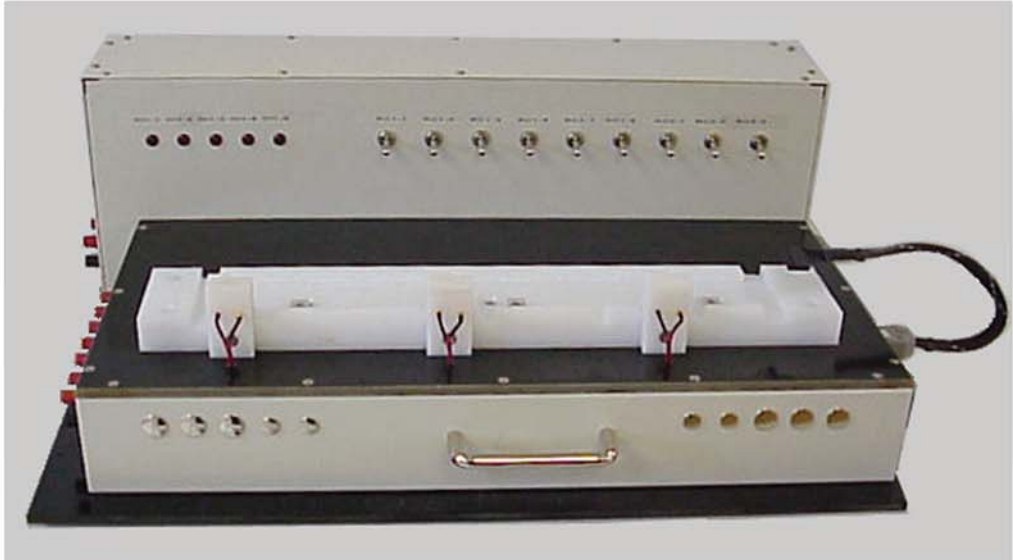
**Features:**

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

# Pogo-Pin Board Test Fixture



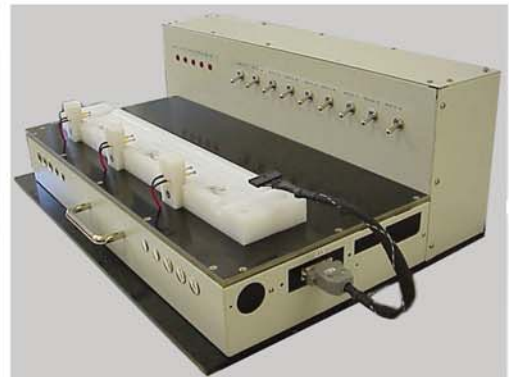
*Close-Up of  
Pogo-Pins*



*Front view of Test Fixture*



*Left side view of Test Fixture*



*Right side view of Test Fixture*

TEST FIXTURES & ITAS

**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

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# Production Test Fixture for Medical Power Supplies

TEST FIXTURES & ITAs



*Front view of Test Fixture*



*Test Fixture with a UUT*

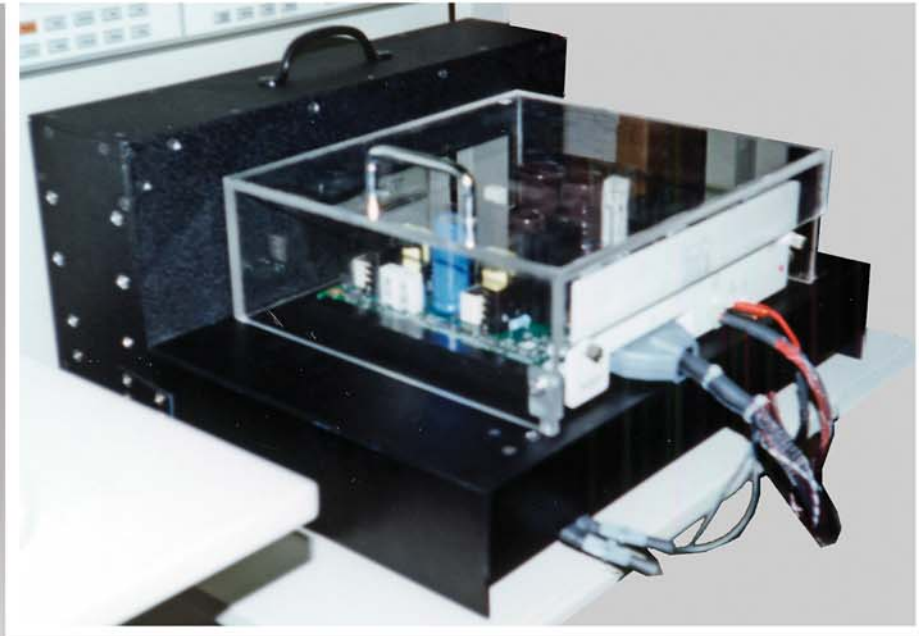


*Rear view of Test Fixture*

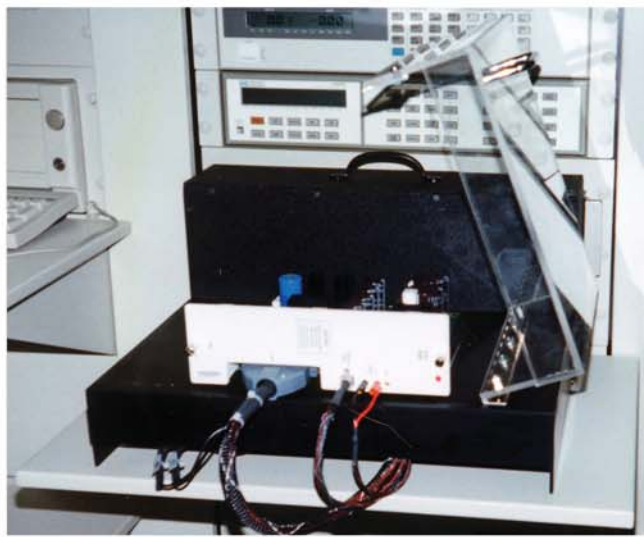
**Application:** Medical Power Supplies  
High Volume Production Test

**Features:** Plug-In Cables to UUT

# Production Test Fixture for Telecom DC/DC Converter



*Side view of Test Fixture with a UUT*



*Test Fixture with Safety Cover Open*



*Test Fixture on ATE*

**Application:** High Volume Production Test

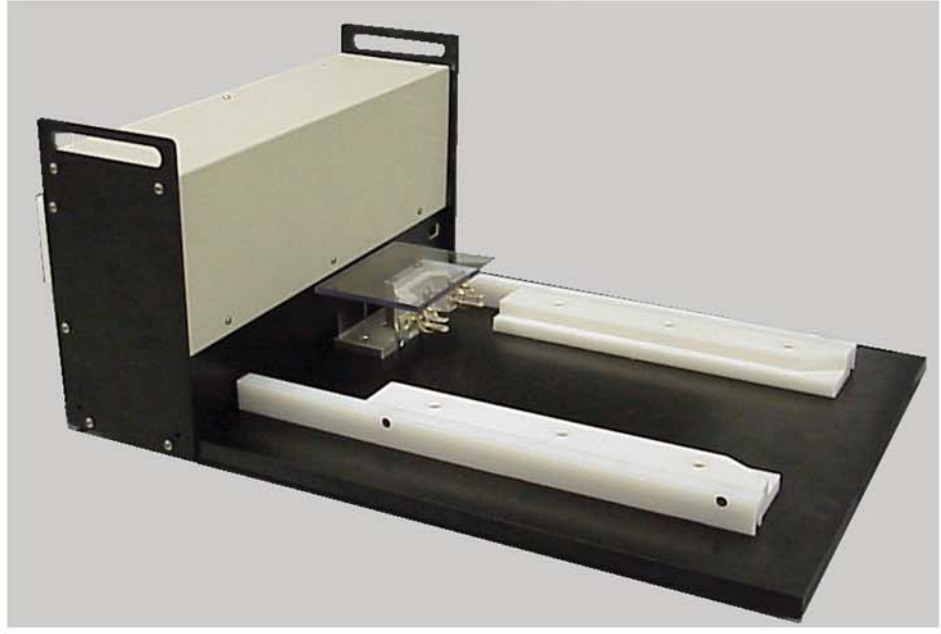
**Features:** Plug-In cables to UUT  
Safety Cover with access to POTs

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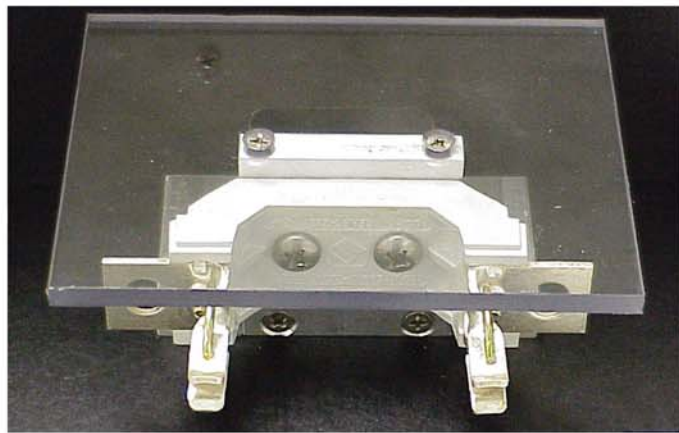


# Production Test Fixture for Telecom Power Supply

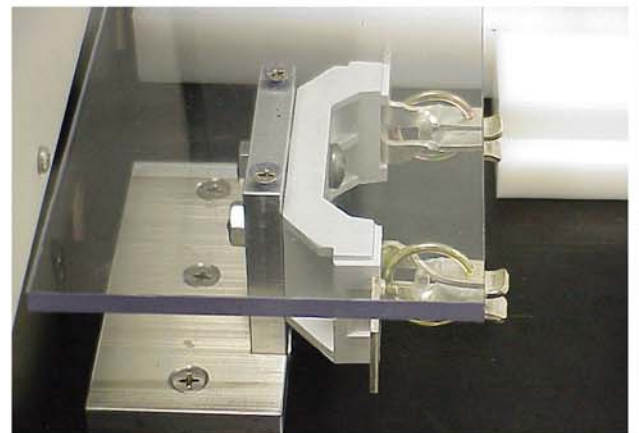
TEST FIXTURES & ITAS



*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

# Production Test Fixture for Telecom Power



TEST FIXTURES & ITAS



*Close-Up of Test Fixture without UUT*

*Test Fixture with UUT*

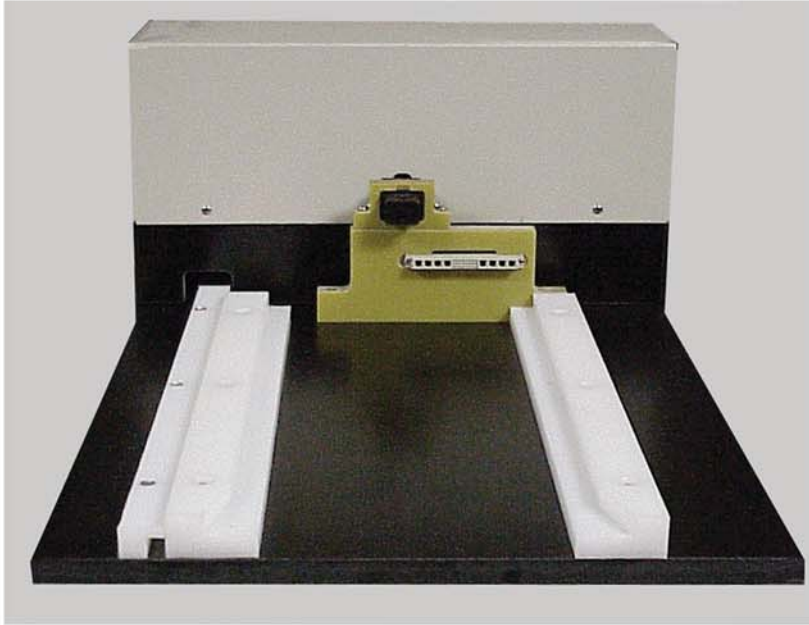
**Application:** High Volume Production Test

**Features:** Pogo-Pin connection to UUT  
Front access for POT Adjust

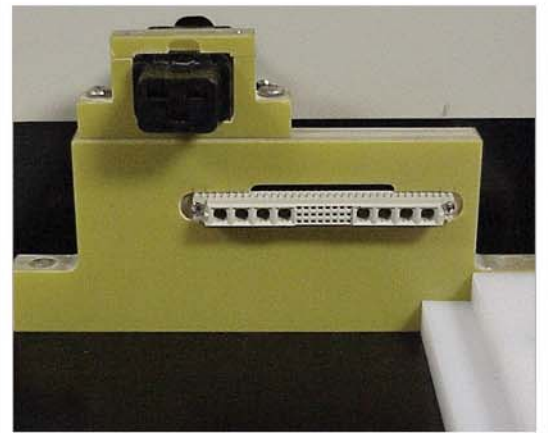


# Production Test Fixture for Telecom 3kW Power Supply

TEST FIXTURES & ITAs



*Front view of Test Fixture*



*Close-Up of UUT Mating Connectors*



*Front view Test Fixture and UUT*

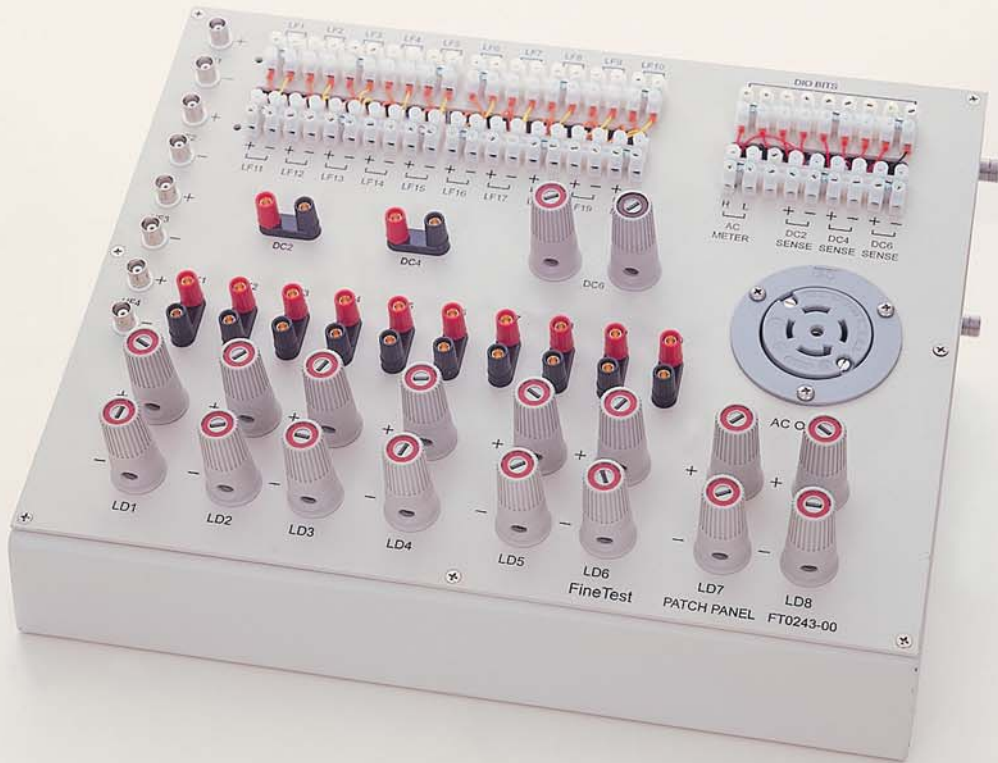


*Side view of Test Fixture and UUT*

**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

**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



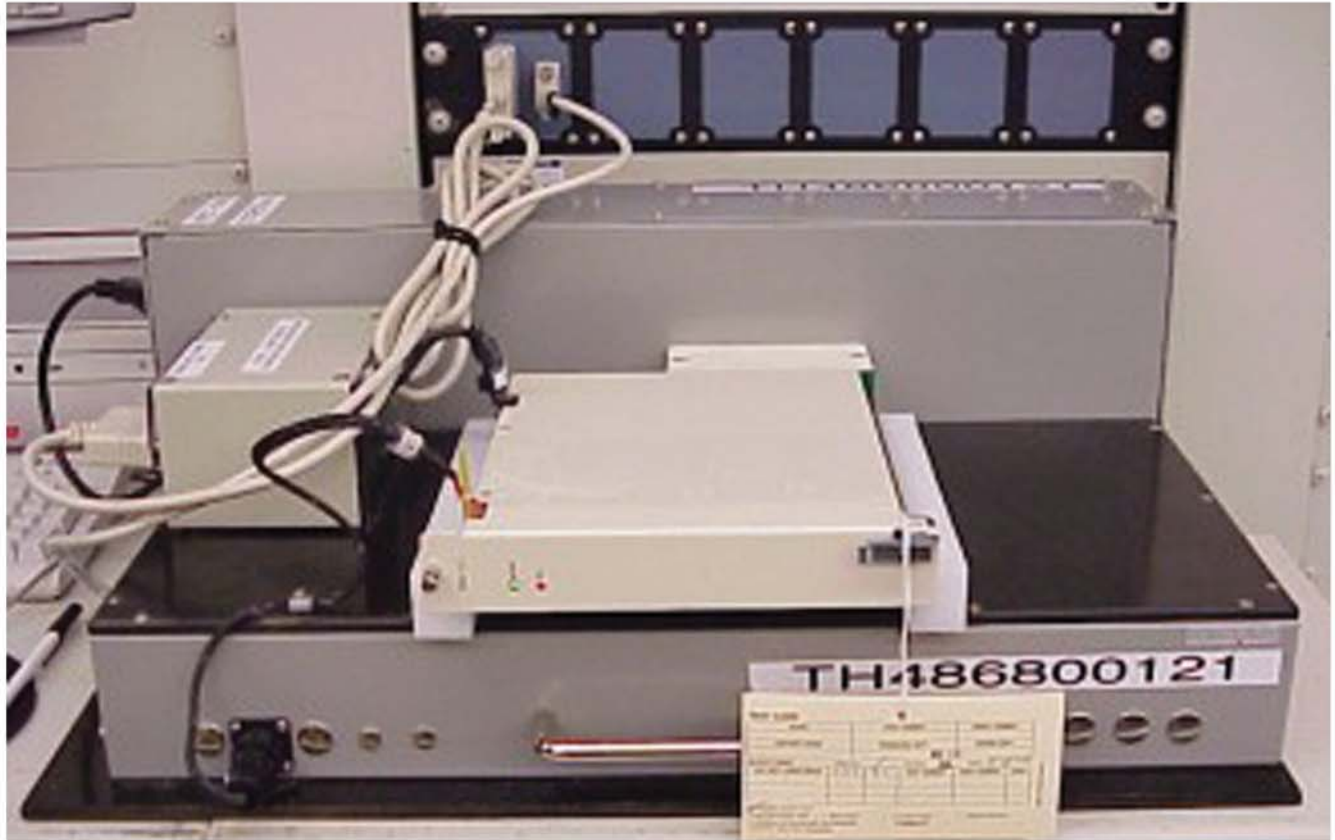
Engineering Quick Connect Adapter on ATE

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# Production Test Fixture for Telecom Power Modules

TEST FIXTURES & ITAs



*Front view of Test Fixture*

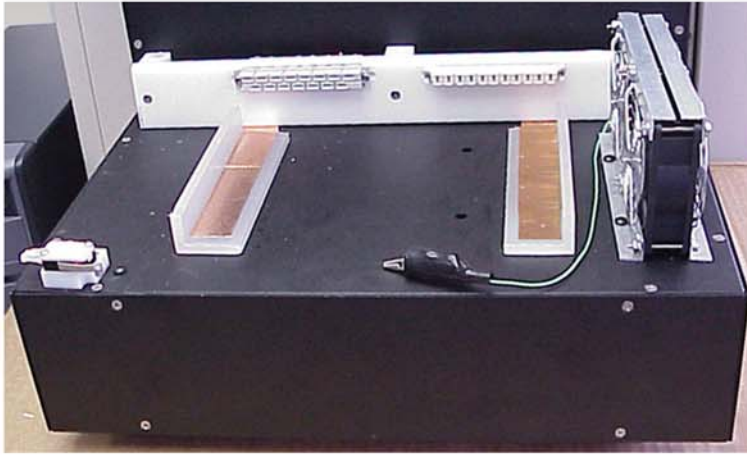
**Application:** Production Test

**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*

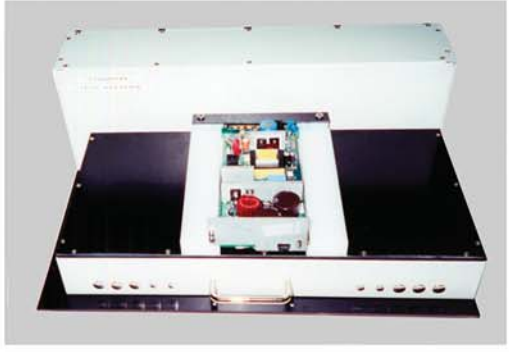
**Application:** Military Production Test

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

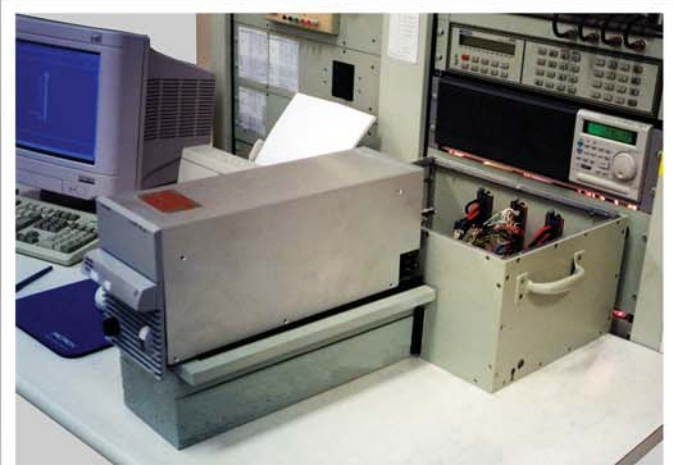


# Various Test Fixtures

TEST FIXTURES & ITAS



*Power Module Test Fixture*



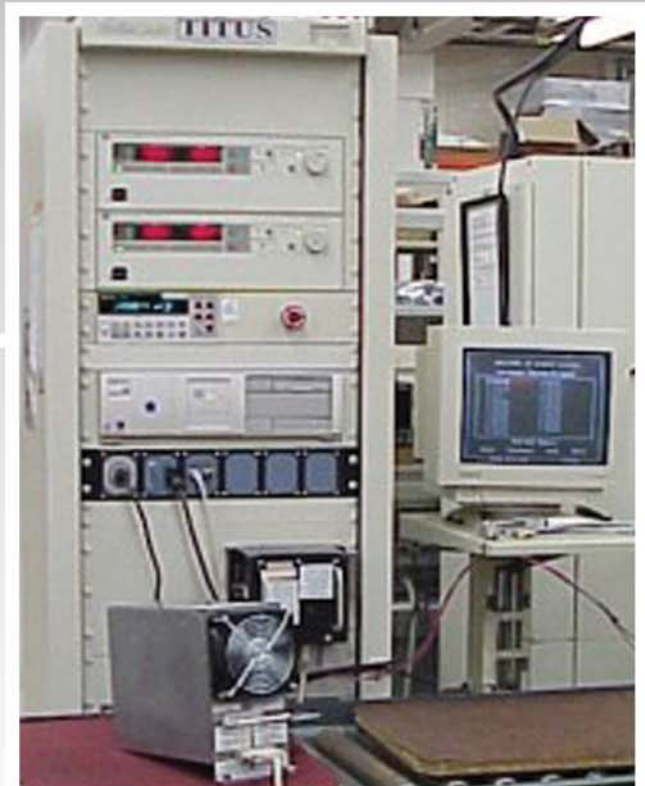
*Plug-In UUT Test Fixture*



*Dual UUT Test Fixture*



*Dual UUT Test Fixture*

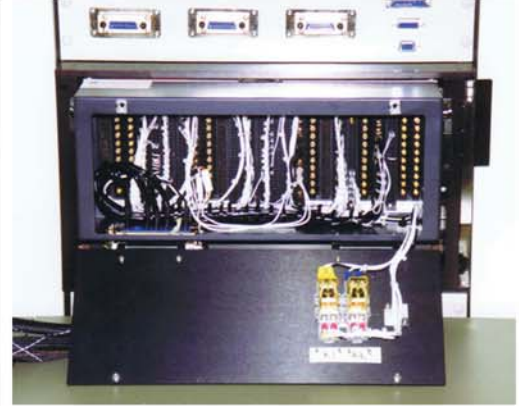


*Cable to UUT Test Fixture*

# Various Test Fixtures



*Cable to UUT Test Fixture*



*Self-Test Fixture with Cover open*



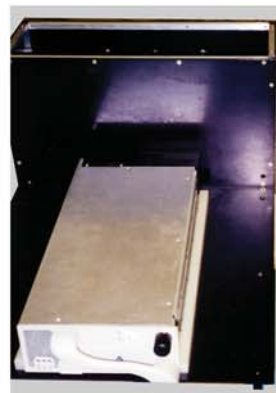
*Cable to UUT Test Fixture*



*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



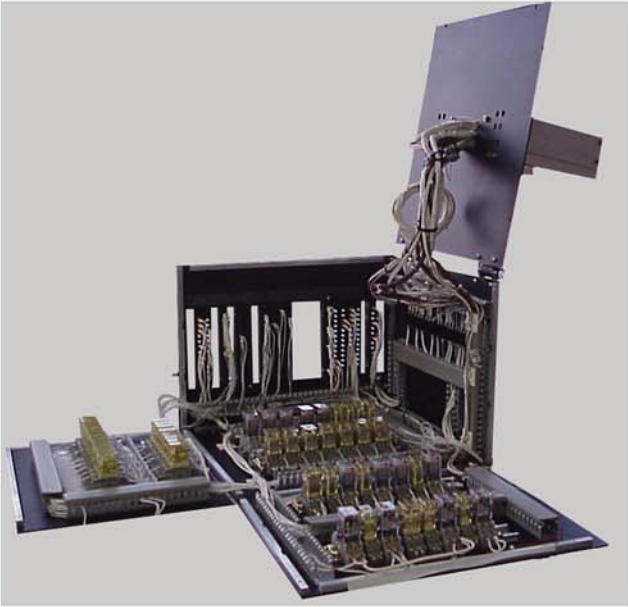
*Tester with ITA installed*



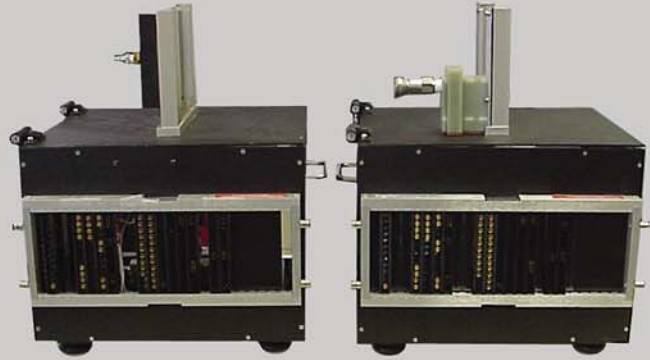
*ITA with hookup for Thermal Hood on top where the UUT is plugged in*



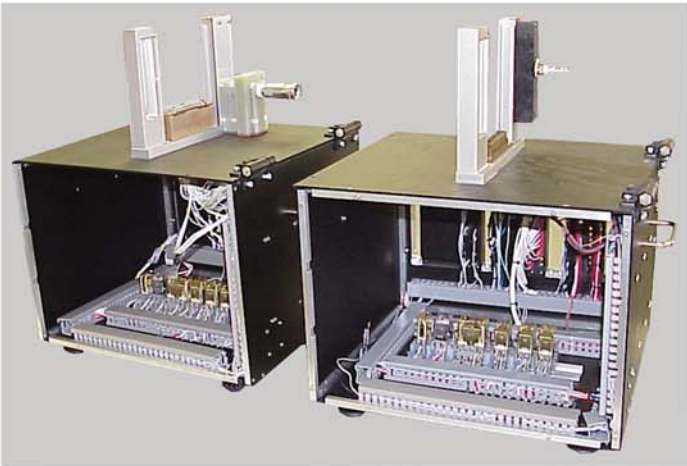
*ITA with the Top Cover open and front panel removed to show wiring*



*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*

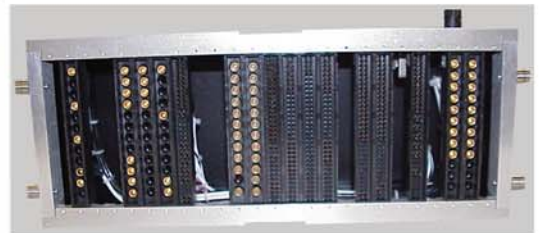
## System Self-Test ITA



*Self-Test ITA with cover open to show wiring*



*Front view of Self-Test ITA*

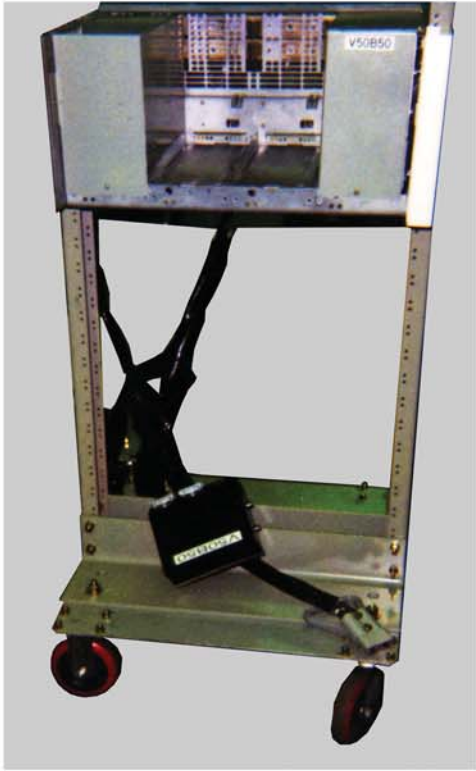


*Connector side of Self-Test ITA*



# 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



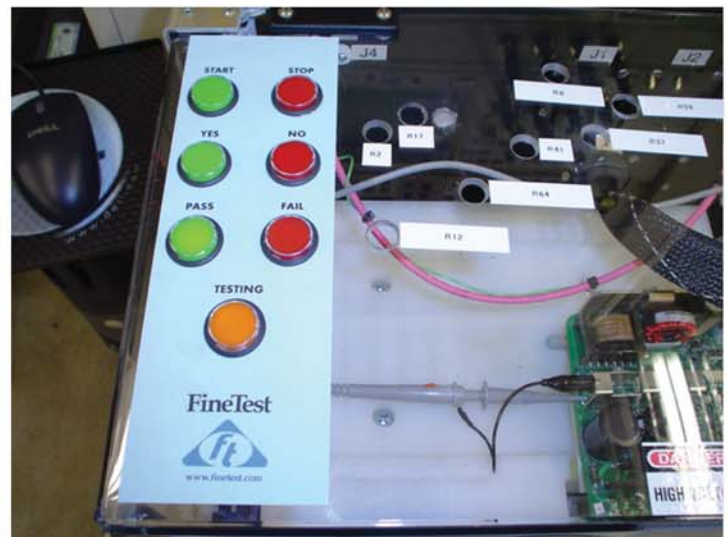
*Test Fixture connected to HIPOT*



*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*

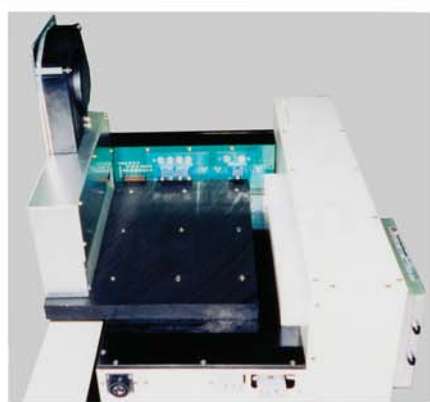
# Various Test Fixtures



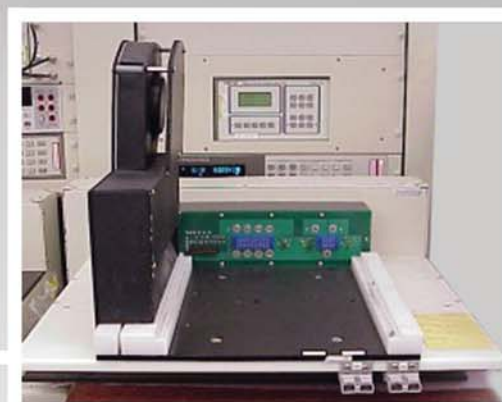
*Test Fixture on ATE*



*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](http://www.finetest.com)



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