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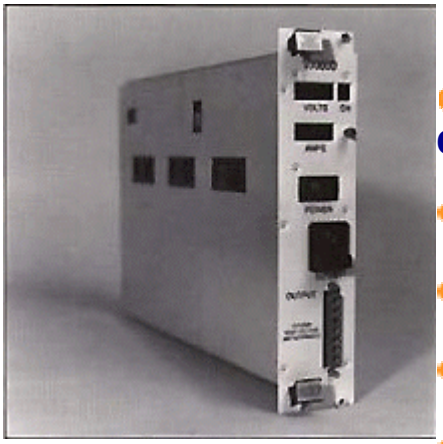
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Advanced Power Designs, Inc.

VXI bus PROGRAMMABLE POWER INSTRUMENTS

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VXI600 Programmable Power Supply



- **Single, Double, or Triple Output**
- **AC or DC Input Options**
- **Up to 600W, 30A, 450VDC**
- **VXI Message Based Format**
- **6 1/2 Digit Read Back**
- **Reduced ATE Size, Weight, and Cost**

Advanced Power Designs is the first to introduce programmable DC power supplies on dual C-Size VXI card formats. Designed specifically for easy integration into new VXI automatic test systems, these state-of-the-art power supplies are fully compliant with all VXI specifications for direct installation into any standard C-Size VXI card cage. They can even be purchased with LABVIEW, LABWINDOWS, CVIor HPVEE Graphical User Interfaces*.

The VXI600 series instruments are single, double, or triple output power supplies on standard dual slot VXI C-Size formats. A single module can provide 600W of continuous output power up to 450VDC and 30 amps, depending on the output stages selected. All outputs are independent and isolated and may be used in parallel for greater flexibility.

The instruments comply with all specifications and standards for VXI instrumentation including power consumption, radiated and conducted EMI and cooling. And because input AC power is supplied into the front of the card via a standard IEC connector, no special backplane power supplies or other modifications to your test station are needed.

The outputs of the VXI600 supplies are designed to be customer selected from a family of available output stages. Output stages provide 200W per output with PARD levels as low as 8m Vrms.

In addition to the graphical users interface software drivers, the VXI600 supplies have been designed with many features which make them ideally suited for complex ATE applications. These features include input power factor correction circuitry, built-in self test and software calibration firmware, output isolation relays and internal 6 1/2 digit read back.

If you have selected the VXIbus as a platform for your next generation ATE system, consider taking full advantage by eliminating antiquated rack-and-stack power supplies and replacing them with VXI-based equivalents. The end result is a fully integrated test system which is elegant, simple, and cost effective.

For more information regarding the VXI600's features, functions, and capabilities, please call, fax, or E-Mail us. Our address is Advanced Power Designs, Inc. 17925 Skypark Circle, Suite K, Irvine, CA 92614, (949)263-8605, or fax at(949)263-8607. You can E-Mail Fred Sabatine, at **fred@vxibus.com** or via our web site by selecting MAIL. You can also download brochures, manuals, and VXI600 software demo programs at this web site by selecting the SUPPORT button.

VXI600 Specifications

Stage Definitions
Protection Circuitry

Voltage: **P20: 0-20VDC, P65: 0-65VDC, P120: 0-120VDC** **Current (I FS): P20: 10.0A, P65: 3.1A, P120: 1.67A** **Current (I MAX): P20: 10.0A, P65: 10.0A, P120: 5.00A** **Power: P20: 200W, P65: 200W, P120: 200W** **Noise - Rms: P20: 8mV, P65: 8mV, P120: 10mV** **Noise – PK-PK: P20: 35mV, P65: 35mV, P120: 40mV** **Prog. Accy – Voltage: P20: 3mV, P65: 3mV, P120: 20mV** **Prog. Accy – Current: P20: 3mA, P65: 3mA, P120: 2mA** **RB Accy: Voltage: P20: 1mV, P65: 1mV, P120: 1mV**	**Over Voltage: 0 to FS. Output is down programmed and the relay is opened.** **Over Current: 0 to FS. Output switched to constant current mode when limit is reached.** **Current Trip: 0 to FS. Output is down programmed and relay is opened when trip delay is exceeded.** **Over Temperature Trip: Output disabled if temperature is exceeded.** **UUT Discharge: Active when output down programmed. Circuit will discharge at a constant rate of 1A.** **Short Circuit: Outputs are protected against a**

RB Accy: Current: P20: 2mA, P65: 2mA, P120: 2mA **Volt Resp Time (10-90%): P20: 5mS, P65: 5mS, P120: 10mS** **Voltage Reg. (vs Line): P20: 1mV, P65: 1mV, P120: 3mV** **Voltage Reg. (vs Load): P20: 2mV, P65: 2mV, P120: 4mV** **Load Recovery – Max Dev: P20: 75mV, P65: 75mV, P120: 75mV** **Load Recovery – Settling: P20: <50uS, P65: <50uS, P120: <50uS**	**short across the output terminals.** **Isolation Relay: Independently controlled for each output. Circuitry is provided to protect relays from current switching.** **Remove Inhibit: Provides for remote hardware shutdown of output via front panel interlock pins.**

Inputs/Outputs Options Physical

Inputs: **Operation Modes: Constant Voltage, Constant Current** **Resolution: Programming 16 bits, Readback 20 bits** **Drift: 0.05% per degree** **Output Seq. Max States: 20** **Output Seq. Dwell Times: 5 mS to 65 mS, +/- 2mS** **Remote/Local Sense: Up to 50% output can be dropped across sense leads.** **Outputs:** **Configuration: Single Phase:** **Voltage: 115VAC or 220VAC** **Frequency: 47 to 63 Hz** **Efficiency: > 80%** **Power Factor: > 0.85** **Backplane Power for Triple Output:** **DCV: +5 +12 -12 +25** **IPM: 1.5A 2.3A 0.1mA 1.5A** **IDM: 1.3A 2.1A 0.1mA 1.1A**	**Front LED: Front panel LEDs provide readouts for voltage, current, and channel.** **Extended Warranties: Type "A". Provides for repair and functional tests of instruments outside the 1 year factory warranty. Type "B" provides an extended warranty, plus annual calibration and servicing.** **Lab Windows/Lab View/HP Vee: Instrument drivers and graphical front panels are provided for communication and control.** **DC Power: Optional operation for DC power available. Full operation over 18VDC to 32VDC.**	**Format: C-size, dual slot.** **Size: 9.2" (h) x 2.4" (w) x 13.4" (d)** **Weight: 6 lbs, plus 1 lb per output channel** **Cooling: Internal fans.** **Safety Compliance: UL, CSA, VDE** **Operating Temperature: -10 to +50 deg C** **Storage Temperature: -15 to 71 deg C** **Relative Humidity – Operating: 20% to 95%, non c** **Isolation:** **Input to output: 1500 Vms** **Between outputs: 300Vms/500VDC** **Outputs/Chassis: 240VDC** **RFI/EMI: Mil-Std 461C, VDE 0871/6.78 LVL B**

General

The VXI600 instruments are single, double, or triple output power supplies on C-size card formats. The VXI600 is a message based device for ease of programming. And because input AC or DC power enters directly into the front of the card, no special back-plane modifications or backplane power supplies are needed. Each instrument contains an on-board microprocessor for communications and control over the VXIbus backplane, as well as non-volatile memory for storage of calibration data, default settings, and other sequencing parameters.
The modular VXI architecture allows ATE size, weight, and cost to be reduced while increasing overall test station MTBF. These advantages result from the elimination of duplicate hard-ware elements found in conventional rack-and-stack systems. The VXI600 supplies eliminate redundant IEEE-488 control boards, logic power supplies, and front panel switches and knobs. Excess mechanical hardware (e.g. sheet metal and fans) found in conventional rack-and-stack supplies is also avoided.

Packaging

The VXI600 supplies are packaged as standard VXIbus dual-slot C-size cards. Each instrument is comprised of five functional sections. The VXI Interface and Input Power Conditioning sections are common to all VXI600models. These sections provide the necessary control circuitry for communications over the back plane, and provide input AC power factor correction circuitry and EMI filtering.

The remaining three sections are independent and isolated Output Power Stages. Each output stage may be customer selected from20VDC or 60VDC modules. Each output stage is rated at 200W continuous output power.

SCPI Compatability

The instrument recognizes commands utilized by the industry standard SCPI (Standard Commands for Programmable Instruments).Thus, programming is consistent with other major power supply manufacturers for interoperability, as well as simplifying programming and reducing test program development times.

Power Factor Correction

The VXI600 supplies have been designed to inter-face with worldwide AC mains with nearly unity power factor. Both 115VAC and 230VAC models are available (DC input optional). In addition to EMI filtering and transient protection, the instrument includes input power factor correction circuits.

Parallel Able Outputs

To provide for the maximum flexibility in meeting a broad range of UUT power requirements, LIKE output stages may be used in parallel. For example, and instrument configured with three 200W output stages may be used as a triple output supply or as a single600W supply - completely under software control.

Output Sequencing

Output sequencing is provided by means of 20 program-able memory stages for voltage level and dwell times. Sequencing can be incremented via SCPI commands or maybe stepped through via SCPI 'trigger' commands.

Cooling / EMI

The VXI600 supplies are fully enclosed and shielded to eliminate electromagnetic interference, and to provide for controlled airflow. The instruments are designed to comply with all VXIbus specifications for close-field and far-field radiated emissions and susceptibility. In addition, each output stage contains miniature cooling fans to ensure adequate cooling air even in instances where adjacent VXI slots are vacant.

Self Test

Both continuous Build-In-Test and On-Command Self test capability are included to provide protection to both the VXI600 and to the UUT. The BIT program continuously monitors various fault flags and user programmable protection circuits. If a failure is detected, appropriate action is automatically taken by the onboard microprocessor.

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