

GX7400A

6U POWER SUPPLY MAINFRAME. ACCEPTS TWO PROGRAMMABLE POWER MODULES

- Two programmable, isolated 150 W output supplies
- Configurable with 15 V, 30 V or 60 V modules
- Externally powered - 120 V / 240 V
- Read-back voltage and current at output
- Over-voltage and over-current protection
- Remote inhibit via front panel connector



DESCRIPTION

The GX7400A is a dual output programmable DC power supply designed for use in 6U PXI systems. The GX7400A occupies three slots and is controlled via the PXI bus. The AC power is provided using a panel-mounted receptacle. The power supplies are fully isolated and can be externally connected in series to provide higher voltage.

FEATURES

The GX7400A can accommodate two programmable power modules. The power section is optically isolated from the PXI bus and the outputs are isolated from each other. A 14-bit DAC and a 16-bit A/D provide extremely accurate programming and readback capabilities. Input AC power is supplied by 120 VAC or 240 VAC and is auto-selectable - providing world-wide power compatibility and flexibility.

PROGRAMMING AND SOFTWARE

The GX7400A is supplied with a software package that includes a virtual panel, driver, and on-line documentation. The virtual panel can be used to interactively control the instrument from a window that displays the instrument's current settings and allows you to control and change them. The driver includes a library of functions that is used to control and change the instrument settings from within your application and is compatible with the Windows operating system (32 bit DLL).

In addition to the driver library, various interface files provide access to the library from your favorite programming tools and languages. These interface files support ATEasy, C/C++, Microsoft Visual Basic, Delphi and other application development environments.

APPLICATIONS

- Power Supply testing
- Automated Test Equipment (ATE)
- R & D verification systems

GX7400A

SPECIFICATIONS

VOLTAGE			
	GX7415	GX7430	GX7460
Type	Programmable Output	Programmable Output	Programmable Output
Voltage	0 - 15 V	0 - 30 V	0 - 60 V
Power	150 W	150 W	150 W
Maximum Current	10 A	5 A	2.5 A
Programming accuracy (14 bit resolution)	±10 mV	±10 mV	±20 mV
Voltage Mode Noise and Regulation			
RMS	8 mV	8 mV	8 mV
Peak-to-Peak	20 mV (typ)	30 mV (typ)	45 mV (typ)
Load Regulation	±10 mV	±10 mV	±10 mV
Line Regulation	±10 mV	±10 mV	±10 mV
READBACK ACCURACY (16 BIT RESOLUTION)			
	GX7415	GX7430	GX7460
Voltage	±2 mV	±3 mV	±5 mV
Current	±1 mA	±1 mA	±1 mA
OUTPUTS			
Modes of Operation	Constant Voltage & Current Limit		
Programming Resolution	14 bits		
Readback Resolution	16 bits		
Remote / Local Sense	Up to 2 VDC may be dropped across sense lines. Drop decreases voltage available at load.		
PROTECTION CIRCUITRY			
Over-Voltage	105% of full scale (fixed)		
Current Limit	Programmable from 0 to FS. Output will automatically switch into constant current mode when limit is reached.		
Current Trip	105% of full scale (fixed)		
Over-Temperature	Automatically disables output if maximum allowable temperature is exceeded.		
Short Circuit	Outputs are protected in the event of a short across output terminals.		
Isolation Relays	Independently controllable for each output. Circuitry is provided to protect relays from switching under load.		
Remote Inhibit	Provides for remote hardware shutdown of outputs via front panel interlock pins.		

INPUT POWER	
Configuration	Single Phase
Voltage	85 to 230 VAC (auto-selectable)
Frequency	47 - 63 Hz
Efficiency	Typical > 75% (depends on programmed voltage and current)
Power Factor	> 0.85
PHYSICAL	
Format	6U PXI
Size	6U PXI, 3-slots wide
Weight	7 lbs
Operating Temperature	0 °C to +55 °C
Humidity (Non-Condensing)	20% - 95%
Cooling	PXI chassis cooling plus one fan per programmable module
PXI Compliance	PXI-1 Hardware Specification, Revision 2.2

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GX7400A	6U Power Supply Mainframe. Accepts Two Programmable Power Modules
POWER MODULES (SELECT ONE OR TWO)	
GX7415	0-15VDC, 10A Programmable Power Supply module for GX7400
GX7430	0-30VDC, 5A Programmable Power Supply module for GX7400
GX7460	0-60VDC, 2.5A Programmable Power Supply module for GX7400
ACCESSORY	
GX97601	Mating connector for GX7400
GX97602	Mating connector for GX7400 with a 6' unterminated harness
GX97603	3' harness for GX7400, D-Type connector on Both ends (Male to Female)
GX97607	3' harness for GX7400, D-Type connector on Both ends (Male to Male)
GX97606	6' harness for GX7400, D-Type connector on Both ends (Male to Female)
GX97608	6' harness for GX7400, D-Type connector on Both ends (Male to Male)
GX97605	Calibration Software for GX7400