

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Marvin Test Sets / Geotest GX7400* at our website: *Click HERE*

GX7400

6U DUAL OUTPUT POWER SUPPLY

- Two outputs, programmable or fixed
- Read back voltage and current at output
- Over-voltage and over-current protection
- Over-temperature and short circuit protection
- Remote inhibit via front panel connector
- Power supply outputs isolated from each other



DESCRIPTION

The GX7400 is a dual output programmable DC power supply designed for use in 6U PXI systems. The GX7400 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 GX7400 can accommodate two power modules: programmable or fixed. 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.

SOFTWARE

The GX7400 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, Microsoft and Borland C/C++, Microsoft Visual Basic, Borland Delphi and other application development environments.

APPLICATIONS

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

GX7400

SPECIFICATIONS

VOLTAGE							
	GX7430	GX7460	GX7420-03	GX7420-05	GX7420-12	GX7420-15	GX7420-28
TYPE	Programmable Output	Programmable Output	Fixed Output	Fixed Output	Fixed Output	Fixed Output	Fixed Output
VOLTAGE	0-30 V	0-60 V	3.3 V	5 V	12 V	15 V	28 V
POWER	150 W	150 W	33 W	50 W	100 W	100 W	100 W
MAX CURRENT	5 A	2.5 A	10 A	10 A	8.4 A	7.6 A	3.6 A
PROGRAMMING ACCURACY (14 BIT RESOLUTION)	10 mV	20 mV	—	—	—	—	—
VOLTAGE MODE NOISE AND REGULATION							
RMS	8 mV	8 mV	Not spec'd	Not spec'd	Not spec'd	Not spec'd	Not spec'd
P-P	30 mV typical	45 mV typical	100 mV	100 mV	150 mV	150 mV	280 mV
LOAD REGULATION	10 mV	10 mV	0.8% or 40 mV	0.8% or 40 mV	0.8% or 40 mV	0.8% or 40 mV	0.8% or 40 mV
LINE REGULATION	10 mV	10 mV	0.4% or 20 mV	0.4% or 20 mV	0.4% or 20 mV	0.4% or 20 mV	0.4% or 20 mV

OUTPUTS	
MODES OF OPERATION	Constant Voltage
(GX7430/60)	Current Limit
PROGRAMMING RESOLUTION	14 bits
READBACK RESOLUTION	16 bits
REMOTE/LOCAL SENSE	Up to 2VDC 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	115 or 220 VAC
FREQUENCY	47-63 Hz
EFFICIENCY	Typ. > 75% (depends on programmed voltage and current)
POWER FACTOR	> 0.85

PHYSICAL	
FORMAT	6U PXI
SIZE W	6U PXI, 3-slots wide
WEIGHT (APPROX.)	7 lb.
OPERATING TEMPERATURE	-0 to 55°C
HUMIDITY	20% - 95% non-condensing
COOLING	PXI chassis cooling plus one fan per programmable module

ORDERING INFORMATION	
GX7400	Power supply mainframe
GX7430	0-30V @5A programmable power supply module
GX7460	0-60V @2.5A programmable power supply module
GX7420-03	3.3V @10A fixed power supply module

Geotest Marvin Test Systems,Inc.
Copyright © Geotest - Marvin Test Systems, Inc. All rights reserved. Products and company names listed are trademarks of their respective companies. Revision B
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

GX7400

GX7420-05	5V @10A fixed power supply module
GX7420-12	12V @8.4A fixed power supply module
GX7420-15	15V @7.6A fixed power supply module
GX7420-28	28V @3.6A fixed power supply module
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 (female to male)
GX97604	Calibration service for GX7400
GX97605	Calibration software for GX7400
GX97606	6' 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)
GX97608	6' harness for GX7400, D-Type connector on both ends (male-to-male)

Geotest Marvin Test Systems,Inc.
Copyright © Geotest - Marvin Test Systems, Inc. All rights reserved. Products and company names listed are trademarks of their respective companies. Revision B
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

GX7400

THIS PAGE INTENTIONALLY LEFT BLANK

Geotest Marvin Test Systems,Inc.
Copyright © Geotest - Marvin Test Systems, Inc. All rights reserved. Products and company names listed are trademarks of their respective companies. Revision B
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP