

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

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GV/GV6 Common Specifications

Specifications	GV (GV6)-L3E	GV (GV6)-U3E	GV (GV6)-U6E	GV (GV6) -U12E	GV (GV6)-H20E
Drive Input Power					
Voltage	95-132VAC	95-265VAC	95-265 VAC	95-265 VAC	208-265 VAC
Phase	1Ø	1Ø	1Ø	1Ø	3Ø
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
24V Keep Alive (Optional)	24 VDC +/- 20% @ x Amps max	24 VDC +/- 20%	24 VDC +/- 20%	24 VDC +/- 20%	24 VDC +/- 20%
Drive Output Power					
Bus Voltage	170 VDC	170/340 VDC	170/340 VDC	170/340 VDC	295/340 VDC
PWM/Nom. Ripple Freq	40/80 kHz	40/80 kHz	8/16, 16/32, 20/40 KhZ User selectable (current deration applies)		
Continuous Current *	3 Amps	3 Amps	6 Amps	12 Amps	20 Amps
Continuous Power *	0.44 kW	0.88 kW	1.75 kW	3.5 kW	5.9 kW
Peak Current	7.5 Amps	7.5 Amps	15 Amps	30 Amps	50 Amps
Peak Power	1.1 kW	2.2 kW	4.4 kW	8.75 kW	14.7 kW
Commutation	Sinusoidal	Sinusoidal	Sinusoidal	Sinusoidal	Sinusoidal

* Peak of sine wave

Performance	
Accuracy	Solid lines represent 240VAC operation, continuous and peak. Dashed lines represent performance using 120VACinput. Speed/torque curves may vary +/- 10%.5 arc min (0.0833°), encoder dependant
Command Inputs – GV	
Velocity and Torque Mode	+/- 10 V
Position Mode	Step & Direction/CW & CCW/Encoder Tracking
Inputs – GV	
Enable, Reset	5-24VDC Selectable, 1/3 1/3 1/3 voltage switching threshold
Neg/Pos Limits	5-24VDC Selectable, 1/3 1/3 1/3 voltage switching threshold
User Fault	5-24VDC Selectable, 1/3 1/3 1/3 voltage switching threshold
Encoder	8 MHz Post Quadrature
Inputs – GV6	
8 Programmable	5-24VDC Selectable, 1/3 1/3 1/3 voltage switching threshold
Enable, Reset	5-24VDC Selectable, 1/3 1/3 1/3 voltage switching threshold
Encoder	8 MHz Post Quadrature
Outputs – GV	
Fault, At Limit	Open collector, 300mA sink capability
Position Error	Open collector, 300mA sink capability
Analog Monitors	+/- 10 V scalable, 8 bit (not to be used as control functions)
Encoder	Programmable up to 1,024,000 counts/rev post quadrature
Relay	Normally open, dry contact
Outputs – GV6	
6 Programmable	Open collector, 300mA sink capabilities
Analog Monitors	+/- 10 V scalable, 8 bit (not to be used as control functions)
Encoder	Programmable up to 1,024,000 counts/rev post quadrature
Relay	Normally open, dry contact
Communications	
Type	RS232/ RS485 (4-wire), 8 bit binary protocal
Baud Rate	Fixed at 9600
Daisy Chain – GV6	Up to 99
Environmental	
Temperature	Still air: 113°F (45°C), moving air: 122°F (50°C)
Humidity	0-95%, non-condensing
Shock/Vibration	Shock:15G half-sine @ 11 msec/ vibration: 2G, 10-2000 Hz
Protection	
Short Circuit	Phase-to-phase, phase-to-ground
Brownout	AC drops below 85 VAC
Over Temperature	Shutdown fault at 131°F (55°C)
Standards	UL, cUL, CE (LVD), CE (EMC)
Physical	
Compumotor motors	SM Series, NeoMetric Series, J Series, and Linear Motors
Non-Compumotor motors	Please refer to the GV and GV6 Hardware Installation Guide
Connectors	
Serial	9-pin D-shell (male)
Motor and power	Barrier screw terminal
Command and I/O	50-pin High density Amp Champ - .050 Series II (with screw attachment)
Feedback	26-pin High density Amp Champ - .050 Series II (with screw attachment)
+24VDC/Relay	4-pin removable terminal block

* See product user guide

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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.

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