

GV Series Specifications

General specifications

| Item | Specifications | | | | |
|---|---|---|--|---|--|
| | GV42C | GV52S | | GV62S | |
| | AIGV4020012 | AIGV5430000 | AIGV5430012 | AIGV6430000 | AIGV6430012 |
| Rated voltage | 24 V DC | 100 to 240 V AC | 24 V DC | 100 to 240 V AC | 24 V DC |
| Power consumption | 15 W max. | 60 VA max. | 30 W max. | 60 VA max. | 30 W max. |
| Permissible momentary power failure | 1 ms or less | 20 ms or less | 1 ms or less | 20 ms or less | 1 ms or less |
| Breakdown voltage | Between external DC power terminal and frame ground: 500 V AC for 1 min. | Between external AC power terminal and frame ground: 1500 V AC for 1 min. | Between external DC power terminal and frame ground: 500 V AC for 1 min. | Between external AC power terminal and frame ground: 1500 V AC for 1 min. | Between external DC power terminal and frame ground: 500 V AC for 1 min. |
| Insulation resistance | 500V DC, 10MΩ or more | | | | |
| Ambient temperature | 0 to +50°C/32 to 122°F | | | | |
| Ambient humidity | 85%RH or less (without dew condensation) | | | | |
| Storage temperature | -10 to +60°C/-50 to 140°F | | | | |
| Vibration resistance | Vibration frequency 10 to 150 Hz. Acceleration: 9.8 m/s ² (1G); Single amplitude: 0.075 mm, 3 directions of X, Y, and Z: 1 hour. | | | | |
| Shock resistance | Pulse shape: sine half wave, peak acceleration: 294 m/s ² (15G), 3 directions of X, Y and Z: six times | | | | |
| Noise immunity | Noise voltage 1500 Vp-p, noise width 1 μs, rise time 1ns, between the power supply terminals. | | | | |
| Static electricity discharge resistance | IEC1000-4-2 compliant, contact 6 kV, in air 8 kV | | | | |
| Grounding | D-class earth (Class 3 earth) | | | | |
| Protective construction | Front panel: IP65; Rear case: IP20 compliant; Shape: single unit; Installation method: panel imbedded | | | | |
| Cooling system | Cooling naturally | | | | |
| Mass | Approx. 1.5 kg/3.31 lb | Approx. 2.4 kg/5.29 lb | | Approx. 2.7 kg/5.95 lb | |

Display

| Item | Specifications | | | | |
|------------------------|--------------------------------------|-------------|-----------------------------------|-------------|-------------|
| | GV42C | GV52S | | GV62S | |
| | AIGV4020012 | AIGV5430000 | AIGV5430012 | AIGV6430000 | AIGV6430012 |
| Display | STN color | | | | |
| Display color | 128 colors and 16 blink colors | | TFT color | | |
| Resolution | 640 × 480 (VGA) | | 32,768 colors and 16 blink colors | | |
| Effective display area | 7.7 inch | | 10.4 inch | | 12.1 inch |
| Backlight | Cold cathode tube (user replaceable) | | | | |
| Backlight average life | Typ. 40,000 hours | | Typ. 50,000 hours | | |
| Auto off function | Continuously lit, free setting | | | | |
| Contrast adjustment | Set via function switch | | Not available | | |

Functions

| Item | Specifications |
|---------------------|---|
| Display characters | 1/4 size (8 × 8 dots): alphanumeric, Katakana, symbol 1/2 size (8 × 16 dots): alphanumeric, Katakana, symbol Full size (16 × 16/32 × 32 dots): JIS#1 and #2 TrueType font |
| Type of lines | 6 types (line, thick, dot, chain, broken, 2-dot chain) |
| Tile patterns | 16 types (incl. user-definable 8 types) |
| Display property | Always on, blinking, reverse video, reverse video blinking |
| Display color | 32,768 colors and 16 blink colors (GV42C: 128 colors and 16 blink color) |
| Color specification | Foreground, background boundaries (line) |
| Screen creation | Special purpose software application: Terminal GVWIN (Windows version) |

Touch key

| Item | Specifications |
|--------------------------|-----------------------------------|
| Form | Analog resistance film form |
| Mechanical lines | 10 ⁶ cycles or more |
| Screen treatment process | Hard coat, non glare treatment 5% |

Function switch

| Item | Specifications |
|--------------------|--------------------------------|
| Number of switches | 8 |
| Form | Pressure sensitive switches |
| Mechanical life | 10 ⁶ cycles or more |

GV Series Types

Main units

| Product name | Specification | Product No. |
|--------------|---|-------------|
| GV42C | 7.7 inch STN/DC/CE/UL compliant product | AIGV4020012 |
| GV52S | 10.4 inch TFT/SVGA/DC/CE/UL compliant product | AIGV5430000 |
| | 10.4 inch TFT/SVGA/DC/CE/UL compliant product | AIGV5430012 |
| GV62S | 12.1 inch TFT/AC/CE/UL compliant product | AIGV6430000 |
| | 12.1 inch TFT/DC/CE/UL compliant product | AIGV6430012 |

Screen creation tool

| Product name | Specification | Product No. |
|----------------|---|-------------|
| Terminal GVWIN | Screen creation tool software CD-ROM English version (with paper manual) | AIGV801 |
| | Screen creation tool software CD-ROM English version (without paper manual) | AIGV8010 |

Interface unit

| Product name | Specification | Product No. |
|--------------------|---|-------------|
| Terminal converter | RS422/485 converter for connecting to PLC | AIGV830 |

Installable units

| Product name | Specification | Product No. |
|-----------------------------------|--|-------------|
| Video input and sound output unit | Video input: 4 channels; sound output: 1 channel | AIGV880 |
| RGB input and sound output unit | RGB input: 1 channel; sound output: 1 channel | AIGV881 |
| RGB output and sound output unit | RGB output: 1 channel; sound output: 1 channel | AIGV882 |
| Sound output unit | Sound output: 1 channel | AIGV883 |

Memory

| Product name | Specification | Product No. |
|-----------------|---------------|-------------|
| Expansion F-ROM | 8 MB | AIGV824 |
| Expansion SRAM | 512 KB | AIGV825 |

Screen protection sheets

| Product name | Specification | Product No. |
|---------------------------------------|---|-------------|
| Screen protection sheet for the GV62S | 12 inch. Screen protection sheet (non-glare type) | AIGV6833 |
| Screen protection sheet for the GV52S | 10 inch. Screen protection sheet (non-glare type) | AIGV5834 |
| Screen protection sheet for the GV42C | 7 inch. Screen protection sheet (non-glare type) | AIGV4835 |

Replacement battery

| Product name | Specification | Product No. |
|---------------------|---------------|-------------|
| Replacement battery | — | AIGV841 |

Replacement Backlight

| Product name | Specification | Product No. |
|---------------------|--|-------------|
| Backlight for GV62S | Backlight for GV62S (12 inch TFT/SVGA) | AIGV6804 |
| Backlight for GV52S | Backlight for GV52S (10 inch TFT/SVGA) | AIGV5801 |
| Backlight for GV42C | Backlight for GV42C (7 inch STN/VGA) | AIGV4800 |

Notes: For GV60T and GV50T, use the following backlights when the hardware version is B or lower.
Backlight for GV60T: AIGV6801
Backlight for GV50T: AIGV5802