

# Product datasheet

Specifications



advanced touchscreen panel 800 x 600 pixels SVGA- 12.1" TFT - 96 MB

Local distributor code: 398059239    HMIGTO6310

## Main

|                           |                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| Range of product          | Harmony GTO                                                                                               |
| Product or component type | Advanced touchscreen panel                                                                                |
| Display colour            | 65536 colours                                                                                             |
| Display size              | 12.1 inch                                                                                                 |
| Supply                    | External source                                                                                           |
| Operating system          | Harmony                                                                                                   |
| Battery type              | Lithium battery for internal RAM, autonomy: 100 days, charging time = 5 day(s), battery life = 10 year(s) |

## Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminal type                  | Touchscreen display                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Display type                   | Backlit colour TFT LCD                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Display resolution             | 800 x 600 pixels SVGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Touch sensitive zone           | 1024 x 1024                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Touch panel                    | Resistive film, 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Backlight lifespan             | 50000 hours white at 25 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Brightness                     | 16 levels - control by touch panel<br>16 levels - control by software                                                                                                                                                                                                                                                                                                                                                                                                                |
| Character font                 | Taiwanese (traditional Chinese)<br>ASCII (European characters)<br>Chinese (simplified Chinese)<br>Japanese (ANK, Kanji)<br>Korean                                                                                                                                                                                                                                                                                                                                                    |
| [Us] rated supply voltage      | 24 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Supply voltage limits          | 19.2...28.8 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Inrush current                 | 30 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Maximum power consumption in W | 12 W when power is not supplied to external devices<br>7 W when backlight is OFF<br>8 W when backlight is dimmed<br>17 W                                                                                                                                                                                                                                                                                                                                                             |
| Local signalling               | Status LED green, steady for offline<br>Status LED green, steady for operating<br>Status LED orange, flashing for software starting up<br>Status LED red, steady for power supply (ON)<br>Status LED clear, faded for power supply (OFF)<br>COM2 LED yellow, steady for data is being transmitted<br>COM2 LED yellow, faded for no data transmission<br>SD card LED green, steady for card is inserted<br>SD card LED green, faded for card is not inserted or is not being accessed |

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Software designation                  | Vijeo Designer configuration software >= V6.1                                                                                                                                                                                                                                                                                                                                                              |
| Memory description                    | Flash EPROM, 96 MB                                                                                                                                                                                                                                                                                                                                                                                         |
| Data backed up                        | 512 kB internal RAM (SRAM)                                                                                                                                                                                                                                                                                                                                                                                 |
| Data storage equipment                | SD card, <= 32 GB<br>SDHC card, <= 32 GB                                                                                                                                                                                                                                                                                                                                                                   |
| Downloadable protocols                | Schneider Electric Modicon Modbus<br>Schneider Electric Modicon Uni-TE<br>Schneider Electric Modicon Modbus Plus<br>Schneider Electric Modicon FIPWAY<br>Mitsubishi Melsec third party protocols<br>Omron Sysmac third party protocols<br>Rockwell Automation Allen-Bradley third party protocols<br>Siemens Simatic third party protocols<br>Schneider Electric Modicon Modbus TCP                        |
| Integrated connection type            | COM1 serial link SUB-D 9, interface: RS232C, transmission rate: 2400...115200 bps<br>COM2 serial link RJ45, interface: RS485, transmission rate: 2400...115200 bps<br>COM2 serial link RJ45, interface: RS485, transmission rate: 187.5 kbps compatible with Siemens MPI<br>Ethernet RJ45, interface: 10BASE-T/100BASE-TX<br>Ethernet RJ45, interface: IEEE 802.3<br>USB 2.0 type A<br>USB 2.0 type mini B |
| Product mounting                      | Flush mounting                                                                                                                                                                                                                                                                                                                                                                                             |
| Fixing mode                           | By 4 screw clamps                                                                                                                                                                                                                                                                                                                                                                                          |
| Front material                        | PPT                                                                                                                                                                                                                                                                                                                                                                                                        |
| Enclosure material                    | PPT                                                                                                                                                                                                                                                                                                                                                                                                        |
| Type of cooling                       | Natural convection                                                                                                                                                                                                                                                                                                                                                                                         |
| Width                                 | 315 mm                                                                                                                                                                                                                                                                                                                                                                                                     |
| Height                                | 241 mm                                                                                                                                                                                                                                                                                                                                                                                                     |
| Depth                                 | 56 mm                                                                                                                                                                                                                                                                                                                                                                                                      |
| Net weight                            | 2.5 kg                                                                                                                                                                                                                                                                                                                                                                                                     |
| Environment                           |                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standards                             | UL 508<br>EN 61131-2<br>IEC 61000-6-2                                                                                                                                                                                                                                                                                                                                                                      |
| Product certifications                | C-Tick<br>KCC<br>cULus<br>CE                                                                                                                                                                                                                                                                                                                                                                               |
| Ambient air temperature for operation | 0...55 °C                                                                                                                                                                                                                                                                                                                                                                                                  |
| Ambient air temperature for storage   | -20...60 °C                                                                                                                                                                                                                                                                                                                                                                                                |
| Relative humidity                     | 10...90 % without condensation                                                                                                                                                                                                                                                                                                                                                                             |
| Operating altitude                    | < 2000 m                                                                                                                                                                                                                                                                                                                                                                                                   |
| IP degree of protection               | IP20 (rear panel) conforming to IEC 60529<br>IP65 (front panel) conforming to IEC 60529                                                                                                                                                                                                                                                                                                                    |
| NEMA degree of protection             | NEMA 4X front panel (indoor use)                                                                                                                                                                                                                                                                                                                                                                           |
| Shock resistance                      | 147 m/s² 3 chocks in each direction X, Y and Z conforming to EN/IEC 61131-2                                                                                                                                                                                                                                                                                                                                |
| Vibration resistance                  | 3.5 mm (f = 5...9 Hz) - X, Y, Z directions for 10 cycles (approx. 100 min) - conforming to EN/IEC 61131-2<br>1 gn (f = 9...150 Hz) - X, Y, Z directions for 10 cycles (approx. 100 min) - conforming to EN/IEC 61131-2                                                                                                                                                                                     |
| Resistance to electrostatic discharge | 6 kV contact discharge conforming to IEC 61000-4-2 level 3                                                                                                                                                                                                                                                                                                                                                 |
| Packing Units                         |                                                                                                                                                                                                                                                                                                                                                                                                            |
| Unit Type of Package 1                | PCE                                                                                                                                                                                                                                                                                                                                                                                                        |

|                              |          |
|------------------------------|----------|
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 3.24 kg  |
| Package 1 Height             | 17.2 cm  |
| Package 1 width              | 32.5 cm  |
| Package 1 Length             | 39 cm    |
| Unit Type of Package 2       | S04      |
| Number of Units in Package 2 | 1        |
| Package 2 Weight             | 4.281 kg |
| Package 2 Height             | 30 cm    |
| Package 2 width              | 40 cm    |
| Package 2 Length             | 60 cm    |
| Unit Type of Package 3       | P12      |
| Number of Units in Package 3 | 30       |
| Package 3 Weight             | 106.9 kg |
| Package 3 Height             | 15 cm    |
| Package 3 width              | 80 cm    |
| Package 3 Length             | 120 cm   |

### Offer Sustainability

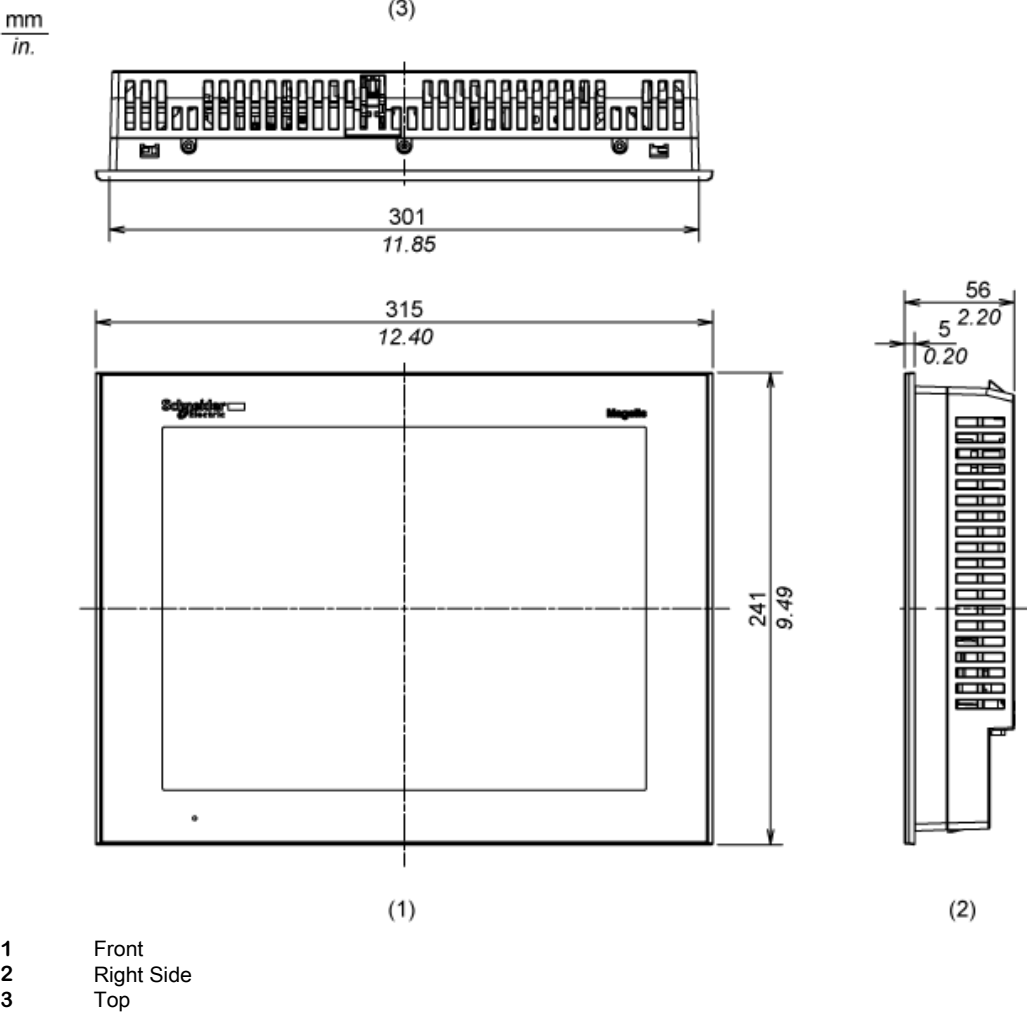
|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                      |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

### Contractual warranty

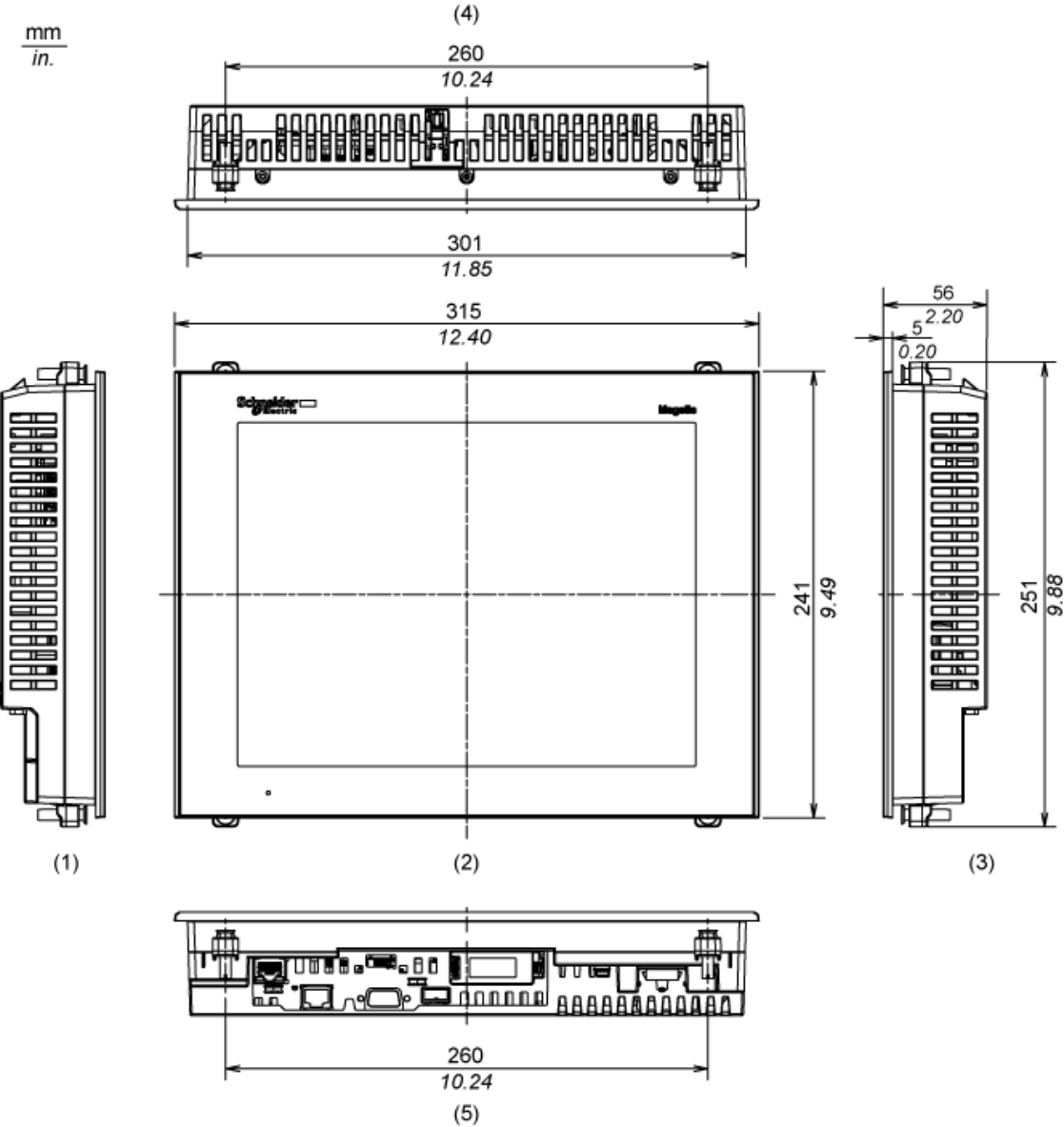
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

External Dimensions

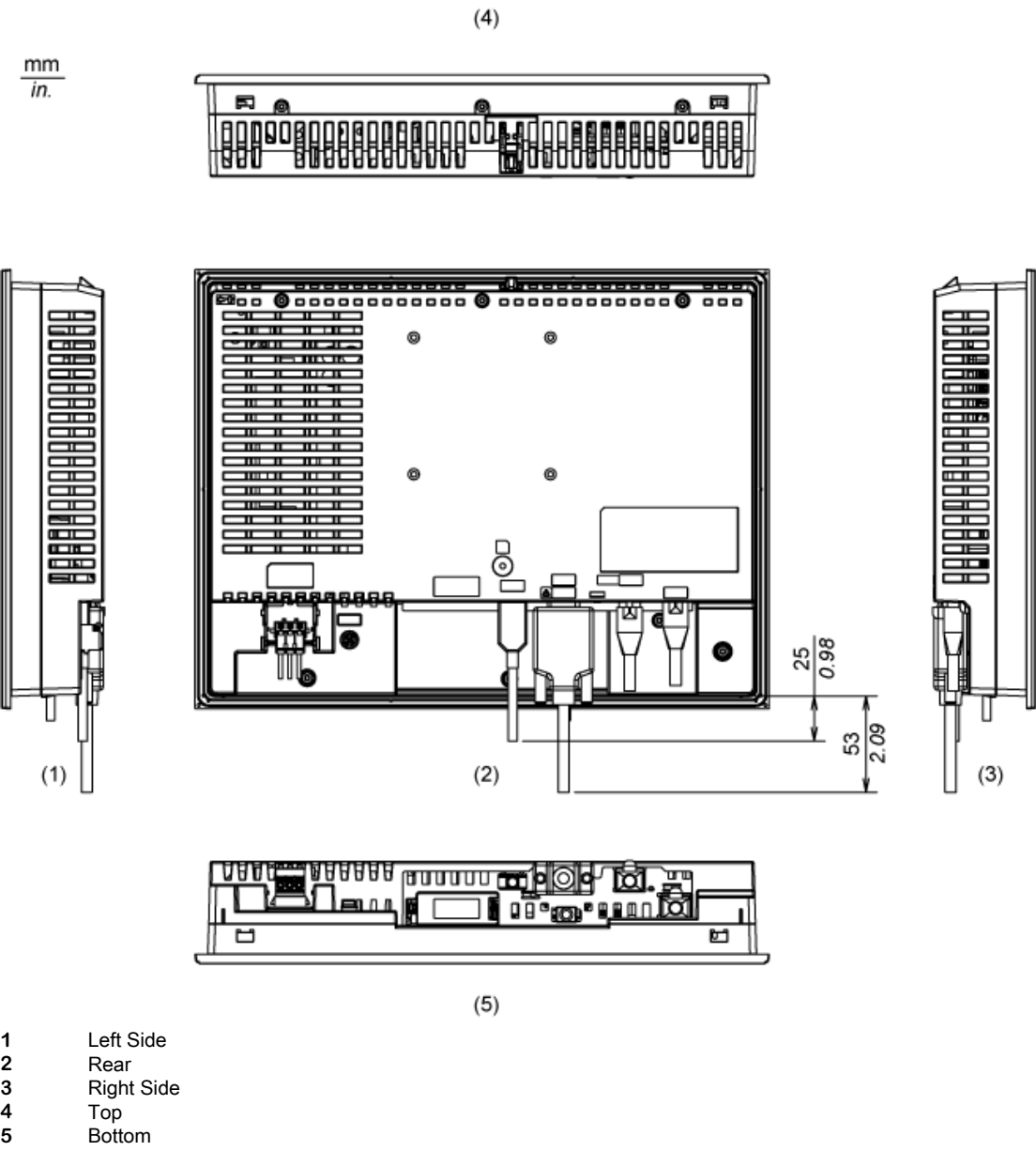


Installation with Installation Fasteners



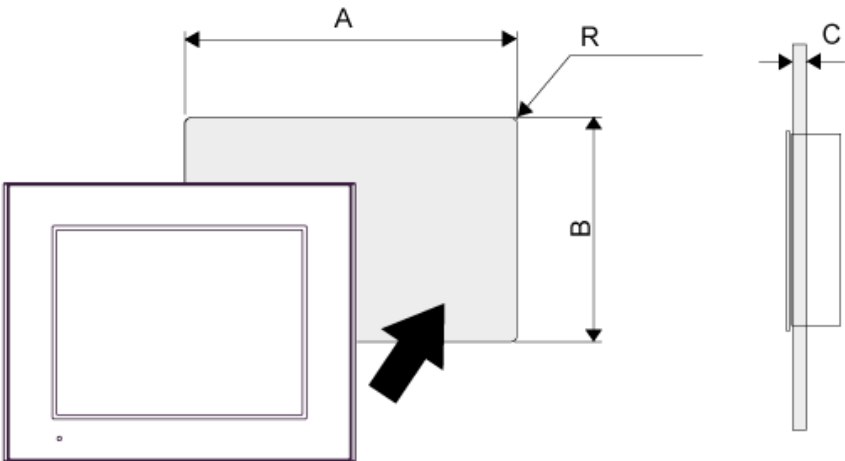
- 1 Left Side
- 2 Front
- 3 Right Side
- 4 Top
- 5 Bottom

Dimensions with Cables



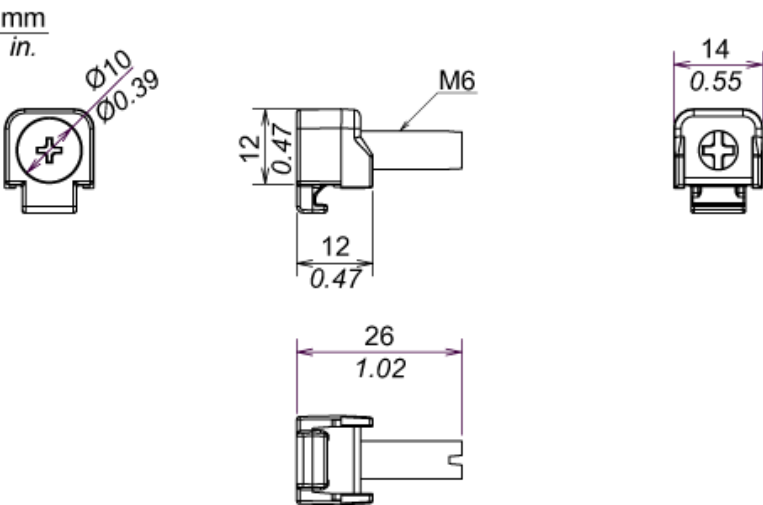
Mounting

Panel Cut Dimensions



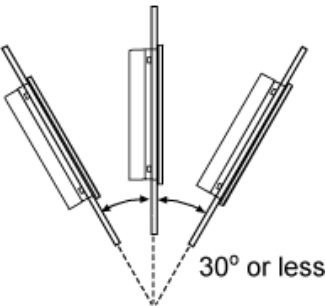
| A              |                   | B              |                  | C       |            | R      |           |
|----------------|-------------------|----------------|------------------|---------|------------|--------|-----------|
| mm             | in.               | mm             | in.              | mm      | in.        | mm     | in.       |
| 301.5 (+1, -0) | 11.87 (+0.04, -0) | 227.5 (+1, -0) | 8.96 (+0.04, -0) | 1.6...5 | 0.06...0.2 | 3 max. | 0.12 max. |

Installation Fastener Dimensions



Installation Requirements

Mounting Angle



When installing the panel in a slanted position with an incline more than 30°, the ambient temperature must not exceed 40 °C (104 °F). You may need to use forced air cooling (fan,A/C) to ensure the ambient operating temperature is 40°C or less (104 °F or less).

Clearance

