

**Features:**

- ▶ Max. efficiency: 96.44%, MPPT efficiency: >99.9%
- ▶ Built-in zero export device
- ▶ Low startup voltage “45V”
- ▶ Anti-islanding protection
- ▶ IP65 protection
- ▶ Wide MPPT range
- ▶ In-house remote monitoring application “SELEC”  
SOLAR

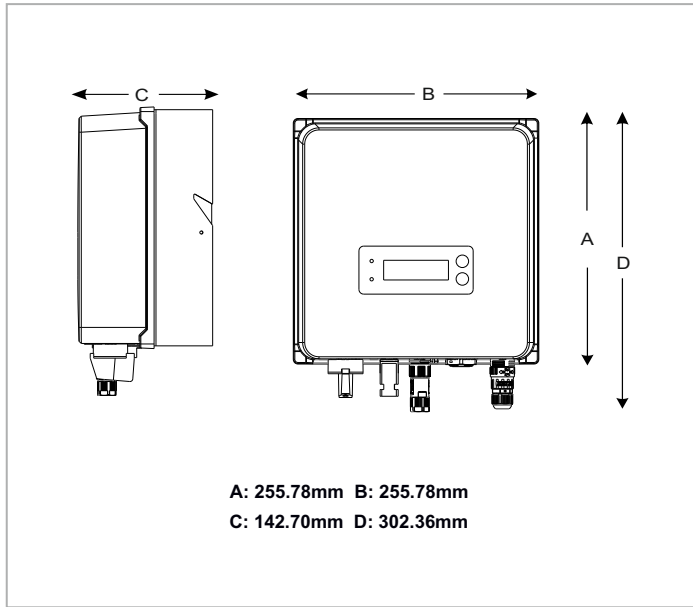
Certification: BIS | BEE | IEC

**Technical specifications**

| Main                                         |                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------|
| Product name                                 | GTI003X61PN243 & GTI003X61PN243-X                                            |
| Product or component type                    | Grid tie inverter                                                            |
| Input specification                          |                                                                              |
| DC input (PV side)                           |                                                                              |
| Nominal DC input power (kW)                  | 3.6                                                                          |
| Max. allowable PV power (kW)                 | 5.4                                                                          |
| Nominal PV voltage (V)                       | 360                                                                          |
| Max. DC input voltage (V)                    | 550                                                                          |
| Startup voltage (V)                          | 45                                                                           |
| Operating range (V)                          | 45-550                                                                       |
| MPPT voltage range (V)                       | 45-500                                                                       |
| Max input current per MPPT (A)               | 17                                                                           |
| Number of MPPT                               | 1                                                                            |
| Max. Input strings number                    | 1                                                                            |
| Max. PV short circuit current per MPPT (ISC) | 20                                                                           |
| Output specifications                        |                                                                              |
| AC output (grid side)                        |                                                                              |
| Rated output power (kW)                      | 3.6                                                                          |
| Max. output power (kW)                       | 3.6                                                                          |
| Nominal AC current, RMS (A)                  | 15                                                                           |
| Max. output current (A)                      | 15.71                                                                        |
| Grid voltage range (V)                       | 216-264                                                                      |
| Grid frequency range (Hz)                    | 50                                                                           |
| Power factor (at rated output power)         | >0.99 (adjustable from 0.8 leading. 0.8 lagging)                             |
| Total harmonic distortion [THDi]             | <3% at rated load                                                            |
| Load feed-in phase / connection phase        | Single phase                                                                 |
| Interface                                    |                                                                              |
| DC connection                                | MC4 connectors                                                               |
| Display                                      | LCD with LED indication                                                      |
| Datalogger & Communication                   | RS485 (default) / Wi-Fi / GSM (to be ordered along with inverter separately) |
| Efficiency                                   |                                                                              |
| Maximum efficiency (%)                       | 96.44                                                                        |
| MPPT efficiency (%)                          | >99.9                                                                        |
| Euro efficiency (%)                          | 96                                                                           |

| Protection functions                              |                                                                                              |
|---------------------------------------------------|----------------------------------------------------------------------------------------------|
| DC reverse polarity protection                    | Yes                                                                                          |
| Short circuit protection                          | Yes                                                                                          |
| Over current protection                           | Yes                                                                                          |
| Over voltage / Under voltage protection           | Yes                                                                                          |
| Over frequency / Under frequency                  | Yes                                                                                          |
| Insulation resistance monitoring                  | Yes                                                                                          |
| Over voltage / Under voltage                      | Yes                                                                                          |
| Residual current detection                        | Yes                                                                                          |
| Surge protection                                  | Type II SPD on AC and DC Side                                                                |
| Islanding protection                              | Yes                                                                                          |
| Temperature protection                            | Yes                                                                                          |
| Integrated DC switch                              | Optional                                                                                     |
| Integrated AFCI (DC arc-fault circuit protection) | Optional                                                                                     |
| General data                                      |                                                                                              |
| Topology                                          | Transformerless                                                                              |
| Consumption @ night (W)                           | <0.5                                                                                         |
| Operating temperature range                       | -25 °C to +60 °C                                                                             |
| Cooling method                                    | Natural convection                                                                           |
| Relative humidity                                 | 0 to 100% non-condensing                                                                     |
| Max. operational altitude                         | 4000m                                                                                        |
| Noise (dBA)                                       | <30                                                                                          |
| Designed lifetime                                 | >20 years                                                                                    |
| Warranty                                          | 7 years + 3 years additional if product is registered on app within 15 days of commissioning |
| Ingress protection                                | IP65                                                                                         |
| Dimensions (W*H*D)                                | 256*302*142mm                                                                                |
| Net weight (Kg)                                   | 4.4                                                                                          |
| Mechanical integration                            | Wall mountable                                                                               |
| Certifications                                    |                                                                                              |
| Safety                                            | IS 16169 : 2019 / IEC 62116 : 2014, IS 16221 (part 2) : 2015 / IEC 62109-2 : 2011            |
| Environmental                                     | IEC 60529                                                                                    |
| Electrical                                        | IS 17980 : 2022 / IEC 62891 : 2020, IEC 61000                                                |

Dimensions (All are in mm)



Ordering information

| Product code     | Description                                                                             |
|------------------|-----------------------------------------------------------------------------------------|
| GTI003X61PN243   | Grid tie inverter - 1 phase / 3.6kW, without WiFi & GSM module - 17A                    |
| GTI003X61PN243-X | Grid tie inverter - 1 phase / 3.6kW, without WiFi & GSM module - 17A, without DC Switch |
| AC-S2W-GTI-2     | WiFi module                                                                             |

GTI - 003X6 - 1P - N - 2 - 43 - X

- GTI - Solar grid tie inverter
- 003X6 - 3.6kW rating
- 1P - Single phase
- N - No WiFi / No GSM
- 2 - 17A
- 43 - Model version
- X - No DC Switch