YASKAWA

# SOLECTRIA XGI 1000

## Premium 3-Phase Transformerless Commercial String Inverters


### Features

- Made in the USA with global components
- Buy American Act (BAA) compliant
- 60kW and 65kW
- Built to last
- Lowest cost of labor/installation
- Access to all inverters on-site via WiFi from one location
- Lowest cost of O&M
- Remote diagnostics
- Remote software & firmware upgrades
- Vertical installation only
- Configured in the Factory: 4 MPPTs; 1 MPPT; Optional Large AC Lugs
- Advanced grid-support functions
- Integrated AFCI
- SunSpec Modbus Certified

### Options

- Web-based monitoring
- Revenue grade metering

Yaskawa Solectria Solar's XGI 1000 commercial string inverters are designed for high reliability and built with the highest quality components. Components were selected, tested and proven to last beyond their warranty. XGI 1000 inverters meet the latest IEEE 1547 and UL 1741SA standards for safety and can be installed to meet NEC rapid shutdown requirements (inquire for more details). Designed and engineered in Lawrence, MA, XGI 1000 inverters are assembled and tested at Yaskawa America's facilities in Buffalo Grove, IL.

XGI 1000 inverters are Made in the USA with global components and are compliant with the Buy American Act.

MADE IN THE USA

With U.S. and Global Components

SOLECTRIA SOLAR

# SOLECTRIA XGI 1000

## Specifications

| | XGI 1000-60/60 | XGI 1000-60/65 | XGI 1000-65/65 |
|---|---|---|---|
| **DC Input** | | | |
| Absolute Maximum Input Voltage | 1000 VDC | 1000 VDC | 1000 VDC |
| Maximum Power Input Voltage Range (MPPT) | 580-850 VDC | 600-850 VDC | 600-850 VDC |
| Operating Voltage Range (MPPT) | 350-950 VDC | 350-950 VDC | 350-950 VDC |
| Maximum Operating Input Current (Clipping Point) | 105.6 A (26.4 A per zone) | 105.6 A (26.4 A per zone) | 110.6 A (27.65 A per zone) |
| Maximum Rated PV Input (per MPPT) | 22.5 kW | 22.5 kW | 24.4 kW |
| Number of MPP Trackers | Independent Mode: 4<br>Combined Mode: 1 | Independent Mode: 4<br>Combined Mode: 1 | Independent Mode: 4<br>Combined Mode: 1 |
| Number of PV Source Circuits (Fused Inputs) | 4 per MPPT; 16 total | 4 per MPPT; 16 total | 4 per MPPT; 16 total |
| Maximum PV Current (Isc x 1.25) per Zone / Total Maximum PV Current | 50 A / 180 A | 50 A / 180 A | 50 A / 180 A |
| Maximum Recommended DC to AC Ratio | 1.5 | 1.5 | 1.5 |
| **AC Output** | | | |
| Nominal Output Voltage | 480 VAC, 3-Ph | 480 VAC, 3-Ph | 480 VAC, 3-Ph |
| AC Voltage Range | -12 / +10% | -12 / +10% | -12 / +10% |
| Continuous Real Output Power | 60 kW | 60 kW | 65 kW |
| Continuous Apparent Output Power | 60 kVA | 65 kVA | 65 kVA |
| Maximum Output Current | 72.2 A | 78.2 A | 78.2 A |
| Nominal Output Frequency | 60 Hz | 60 Hz | 60 Hz |
| Power Factor (Unity default) | +/- 0.85 Adjustable | +/- 0.85 Adjustable | +/- 0.85 Adjustable |
| Total Harmonic Distortion (THD) @ Rated Power | <3% | <3% | <3% |
| Grid Connection Type | 3-Ph + N/GND | 3-Ph + N/GND | 3-Ph + N/GND |
| Fault Current Contribution (1 cycle RMS) | 93.9 A | 101.7 A | 101.7 A |
| Recommended AC Overcurrent Device Rating | 100 A (AC Maximum Output Current x 1.25) | | |
| **Efficiency** | | | |
| Peak Efficiency / CEC Average Efficiency | 98.2% / 98.0% | 98.2% / 98.0% | 98.2% / 98.0% |
| Tare Loss | <1 W | <1 W | <1 W |
| **Temperature** | | | |
| Ambient Temperature Range | -40°F to 140°F (-40°C to 60°C) | | |
| De-Rating Temperature | 122°F (50°C) | 113°F (45°C) | |
| Storage Temperature Range | -40°F to 167°F (-40°C to 75°C) | | |
| Relative Humidity (non-condensing) | 0-95% | | |
| Operating Altitude | 9,842.5 ft (3,000 m) | | |
| **Communications** | | | |
| Advanced Graphical User Interface | WiFi | | |
| Communication Interface | RJ-45 Ethernet | | |
| Third-Party Monitoring Protocol | Sunspec Modbus TCP/IP | | |
| Firmware Updates | Remote/Local | | |
| **Testing & Certifications** | | | |
| Safety Listings & Certifications / Testing Agency | UL 1741 / IEEE 1547, UL 1699B, UL 1998 / Intertek | | |
| FCC Compliance | FCC Part 15, Class A | | |
| **Warranty** | | | |
| Standard Limited Warranty | 10 Years | | |
| **Enclosure** | | | |
| Acoustic Noise Rating | 55 dBA @ 3 m | | |
| DC Disconnect | Integrated, 2 Pole | | |
| Dimensions (H x W x D), Mounting Angle | 45.8 in. x 28.3 in. x 11.6 in. (1163 x 719 x 295 mm), 5-90° Measured from horizontal | | |
| Weight | Inverter: 123 lbs (55.8 kg); Wiring Box: 53 lbs (24.1 kg) | | |
| Enclosure Rating and Finish | Type 4X, Polyester Powder-Coated Aluminum | | |
| **Wiring Box Configuration (From the Factory)** | | | |
| Independent Mode: 4 MPPT | DC Fuse Holders (12 - 8AWG Cu only); AC Terminals (3AWG -1/0 Cu or 1AWG - 1/0 Al); N and PE (8 - 4AWG Cu or 6 - 4AWG Al) | | |
| Combined Mode: 1 MPPT | | | |
| OPTION: Large AC Lugs | DC Fuse Holders (12 - 8AWG Cu only); AC Terminals (3AWG - 3/0 Cu or 1AWG - 3/0 Al); N and PE (6AWG - 1/0 Cu or 6AWG - 1/0 Al) | | |

Specifications subject to change.

SOLECTRIA SOLAR

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