

# 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
- 5-90° installation angles
- 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. The XGI 1000 inverters meet the latest IEEE 1547 and UL 1741 standards for safety. Offering a wide mounting-angle range (5 – 90° from horizontal), the XGI inverters can be installed to meet NEC rapid shutdown requirements (inquire for more details). Designed and engineered in Lawrence, MA, the XGI inverters are assembled and tested at Yaskawa America's facilities in Buffalo Grove, IL.

The all new 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
<b>DC Input</b>			
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 Combined Mode: 1	Independent Mode: 4 Combined Mode: 1	Independent Mode: 4 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
<b>AC Output</b>			
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)		
<b>Efficiency</b>			
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
<b>Temperature</b>			
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)		
<b>Communications</b>			
Advanced Graphical User Interface	WiFi		
Communication Interface	RJ-45 Ethernet		
Third-Party Monitoring Protocol	Sunspec Modbus TCP/IP		
Firmware Updates	Remote/Local		
<b>Testing &amp; Certifications</b>			
Safety Listings & Certifications / Testing Agency	UL 1741 / IEEE 1547, UL 1699B, UL 1998 / Intertek		
FCC Compliance	FCC Part 15, Class A		
<b>Warranty</b>			
Standard Limited Warranty	10 Years		
<b>Enclosure</b>			
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		
<b>Wiring Box Configuration (From the Factory)</b>			
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	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)		
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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