

# YASKAWA

# SOLECTRIA XGI 1000

## Premium 3-Ph Transformerless Commercial String Inverters

### Features

- Made in the USA with global components
- Buy American Act (BAA) compliant
- 50kW, 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
- 4 MPPTs
- Advanced grid-support functions
- Integrated AFCI

### Options

- Plug & play MC4 or H4 connectors
- Web-based monitoring
- Revenue grade metering
- Extended warranty



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 provide advanced grid-support functionality and 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 array-level rapid shutdown requirements. Designed and engineered in Lawrence, MA, the new 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



## SOLECTRIA SOLAR

# SOLECTRIA XGI 1000

## Specifications

	XGI 1000-50/60	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	1000 VDC
Maximum Power Input Voltage Range (MPPT)	580-850 VDC	580-850 VDC	580-850 VDC	580-850 VDC
Operating Voltage Range (MPPT)	350-950 VDC	350-950 VDC	350-950 VDC	350-950 VDC
Maximum Operating Input Current	88.0 A (22.0 A per zone)	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 Operating PV Power (per MPPT)	12.8 kW	15.3 kW	15.3 kW	16.6 kW
Maximum Rated PV Input (per MPPT)	18.75 kW	22.5 kW	22.5 kW	24.4 kW
Number of MPP Trackers	4 / 1 (default)	4 / 1 (default)	4 / 1 (default)	4 / 1 (default)
Number of PV Source Circuits (Fused Inputs)	4 per MPPT; 16 total	4 per MPPT; 16 total	4 per MPPT; 16 total	4 per MPPT; 16 total
Maximum PV Current (Isc x 1.25) per Zone / Single Zone	50 A / 180 A	50 A / 180 A	50 A / 180 A	50 A / 180 A
Maximum Recommended DC to AC Ratio	1.5	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	480 VAC, 3-Ph
AC Voltage Range	-12 / +10%	-12 / +10%	-12 / +10%	-12 / +10%
Continuous Real Output Power	50 kW	60 kW	60 kW	65 kW
Continuous Apparent Output Power	60 kVA	60 kVA	65 kVA	65 kVA
Maximum Output Current	72.2 A	72.2 A	78.2 A	78.2 A
Nominal Output Frequency	60 Hz	60 Hz	60 Hz	60 Hz
Power Factor (Unity default)	+/- 0.85 Adjustable	+/- 0.85 Adjustable	+/- 0.85 Adjustable	+/- 0.85 Adjustable
Total Harmonic Distortions (THD) @ Rated Power	<3%	<3%	<3%	<3%
Grid Connection Type	3-Ph + N/GND	3-Ph + N/GND	3-Ph + N/GND	3-Ph + N/GND
Fault Current Contribution (1 cycle RMS)	93.9 A	93.9 A	101.7 A	101.7 A
AC Breaker	100 A	100 A	100 A	100 A
<b>Efficiency</b>				
Peak Efficiency	98.2%	98.2%	98.2%	98.2%
CEC Average Efficiency	98.0%	98.0%	98.0%	98.0%
Tare Loss	<1 W	<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		
Web-Based Monitoring		Optional		
Revenue Grade Metering		Optional		
Firmware Updates		Remote/Local		
<b>Testing &amp; Certifications</b>				
Safety Listings & Certifications		UL 1741 / IEEE 1547, UL 1699B, UL 1998		
Advanced Grid Support Functionality		Rule 21, UL 1741SA		
Testing Agency		Intertek		
FCC Compliance		FCC Part 15, Class A		
<b>Warranty</b>				
Standard and Options		10 Years Standard; Options for 15 and 20 Years		
<b>Enclosure</b>				
Acousting Noise Rating		55 dBA @ 1 m		
DC Disconnect		Integrated, 2 Pole		
Mounting Angle		5-90° Measured from horizontal		
Dimensions (H x W x D)		45.8 in. x 28.3 in. x 11.6 in. (1163 x 719 x 295 mm)		
Weight		Inverter: 117 lbs (53.07 kg); Wiring Box: 49 lbs (22.22 kg)		
Enclosure Rating and Finish		Type 4, Polyester Powder-Coated Aluminum		

**SOLECTRIA SOLAR**

**Yaskawa Solectria Solar**  
360 Merrimack Street  
Lawrence, MA 01843  
[solectria.com](http://solectria.com)

1-978-683-9700  
Email: [inverters@solectria.com](mailto:inverters@solectria.com)

DOCR-070604-F | February 2018  
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