

SOLECTRIA® XGI1500-250-DCG SERIES

PREMIUM 3-PHASE TRANSFORMERLESS
UTILITY-SCALE INVERTERS WITH GROUNDED DC INPUT

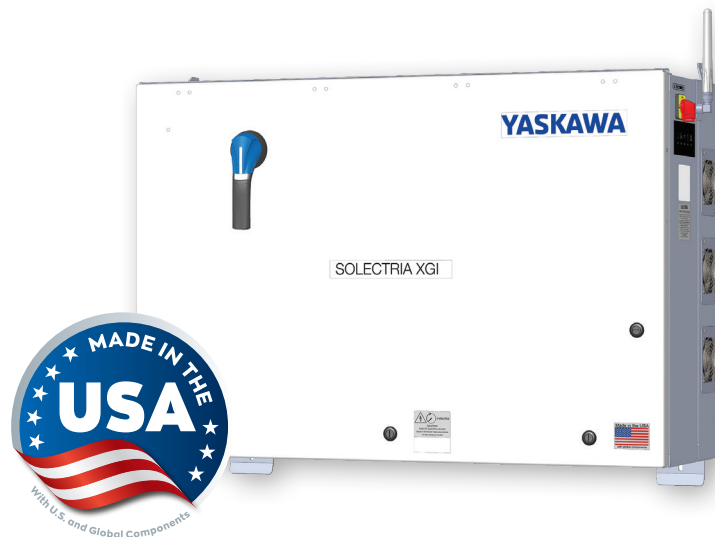
FEATURES

- NEW!
 - XGI 1500-250/250-600-DCG
 - XGI 1500-225-600-DCG
 - XGI 1500-200/200-480-DCG
 - XGI 1500-175-480-DCG
- Grounded DC Input!
 - Compatible with First Solar PV modules
 - Grounded DC input prevents potential-induced-degradation for any PV modules affected
- Industry-leading maximum DC/AC Ratio of 2.0
- Accepts two input PV Source Circuits, with no overcurrent protections
- Made in the USA with global components
- Buy American Act (BAA) compliant
- 99.0% peak efficiency
- Flexible solution for distributed and centralized system architecture
- Advanced grid-support functionality Rule 21/UL1741SB
- Robust, dependable and built to last
- Lowest O&M and installation costs
- Access all inverters on site via WiFi from one location
- Remote diagnostics and firmware upgrades
- SunSpec Modbus Certified
- Tested compatible with the TESLA PowerPack Microgrid System

OPTIONS

- PV Source Circuit Combiners
- Web-based monitoring
- Extended warranty

Yaskawa Solectria Solar is pleased to introduce the new XGI 1500-DCG series inverters, featuring a grounded DC input, with two models at 600 Vac and two at 480 Vac



The XGI 1500-DCG Series inverters feature SiC technology, high power and high efficiency that places them at the top end of the utility-scale string inverters in the market.

Yaskawa Solectria Solar designs all XGI 1500 utility-scale string inverters for high reliability and builds them with the highest quality components -- selected, tested and proven to last beyond their warranty. The XGI 1500 inverters provide advanced grid-support functionality and meet the latest IEEE 1547 and UL 1741 standards for safety.

The XGI 1500 inverters provide ideal solutions for ground-mounted utility-scale PV systems, with models available for service connections at 600 Vac and 480 Vac. Designed and engineered in Lawrence, MA, the SOLECTRIA XGI inverters are assembled and tested at Yaskawa America's facilities in Buffalo Grove, IL. The XGI 1500 inverters are Made in the USA with global components, and are compliant with the Buy American Act.

SOLECTRIA® XGI 1500-DCG SERIES TECHNICAL DATA

SPECIFICATIONS

PRODUCT SPECIFICATION		XGI 1500 INVERTER MODEL				
		XGI 1500 250/250-600-DCG		XGI 1500 225-600-DCG		XGI 1500 200/200-480-DCG
DC Input	Absolute Maximum Input Voltage	1500 VDC				
	Maximum Power Voltage Range (MPPT)	860-1250 VDC		750-1250 VDC		
	Operating Voltage Range (MPPT)	860-1450 VDC		750-1450 VDC		
	Number of MPP Trackers	1 MPPT				
	Maximum Operating Input Current	296.7 A	267 A	237.3 A	207.6 A	
	Maximum Operating PV Power	255 kW	230 kW	204 kW	179 kW	
	Maximum DC/AC Ratio Max Rated PV Power	2.0 500 kW	2.22 500 kW	2.5 500 kW	2.86 500 kW	
	Max Rated PV Short-Circuit Current ($\sum I_{sc} \times 1.25$)	800 A				
AC Output	Nominal Output Voltage	600 VAC, 3-Phase		480 VAC, 3-Phase		
	AC Voltage Range	-12% to +10%				
	Continuous Real Output Power	250 kW	225 kW	200 kW	175 kW	
	Continuous Apparent Output Power (kVA)	250	250 225	200	200 175	
	Maximum Output Current (A_{RMS})	240.6	XGI 1500- 225/225: 216.5 225/250: 240.6	240.6	XGI 1500- 175/175: 210.5 175/200: 240.6	
	Fault Current Contribution (1 cycle RMS)	390 A	390 A 351 A	312 A	312 A 273 A	
	Conductor Compatibility	600 kcmil max, Cu or Alum, 1 or 2 conductors with lugs				
	Nominal Output Frequency	60 Hz				
	Power Factor (Unity default)	+/- 0.80 Adjustable				
	Total Harmonic Distortion (THD) @ Rated Load	< 5%				
	Grid Connection Type	3-Ph + N/GND				
Efficiency	Peak Efficiency	99.0%				
	CEC Average Efficiency	98.5%				
	Tare Loss	<1 W				
	Ambient Temperature Range	-40°F to 140°F (-40°C to 60°C)				
	De-Rating Temperature	113°F (45°C)	127°F (53°C)	113°F (45°C)	131°F (55°C)	
Temperature	Storage Temperature Range	-40°F to 167°F (-40°C to 75°C)				
	Relative Humidity (non-condensing)	0 - 95%				
	Operating Altitude	9,840 ft (3 km)				
Communications	Advanced Graphical User Interface	WiFi				
	Communication Interface	Ethernet				
	Third-Party Monitoring Protocol	SunSpec Modbus TCP/IP				
	Web-Based Monitoring	Optional				
	Firmware Updates	Remote and Local				
Testing & Certifications	Safety Listings & Certifications	UL 1741, IEEE 1547, UL 1998 UL 1699b Photovoltaic Arc-Fault Circuit Protection Certified				
	Advanced Grid Support Functionality	Rule 21, UL 1741SB				
	Testing Agency	ETL				
Warranty	FCC Compliance	FCC Part 15 (Subpart B, Class A)				
	Standard and Options	5 Years Standard; Option for 10 Years				
Enclosure	Acoustic Noise Rating	73 dBA @ 1 m ; 67dBA @ 3 m				
	DC Disconnect	Integrated 2-Pole 400 A DC Disconnect				
	Mounting Angle	Vertical only				
	Dimensions	Height: 29.5 in. (750 mm) Width: 44.3 in. (1125 mm) Depth: 15.4 in. (390 mm)				
	Weight	290 lbs (131.5 kg)				
	Enclosure Rating and Finish	NEMA 4X, IEC IP66, Type 3R, Polyester Powder-Coated Aluminum				

