

# SOLECTRIA® XGI 1500-250 SERIES

## PREMIUM 3-PHASE TRANSFORMERLESS UTILITY-SCALE INVERTERS

### FEATURES

- NEW and MORE POWERFUL!
  - XGI 1500-250/250-600
  - XGI 1500-225-600 (Selectable: 225kW/225kVA or 225kW/250kVA)
  - XGI 1500-200/200-480
  - XGI 1500-175-480 (Selectable: 175kW/175kVA or 175kW/200kVA)
- Industry-leading maximum DC/AC Ratio of 2.0
- Accepts two input PV Output Circuits, with no overcurrent protection required
- 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 its most powerful XGI 1500 inverters, with the XGI 1500-250 models at 600 Vac, and the XGI 1500-200 models for 480 Vac service.



The XGI 1500-250 and XGI 1500-200 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 1500-250 SERIES TECHNICAL DATA

## SPECIFICATIONS

Product Specification		XGI 1500 Inverter Model							
		XGI 1500 250/250-600		XGI 1500 225-600		XGI 1500 200/200-480		XGI 1500 175-480	
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 (ΣIsc x 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	
	Maximum Output Current	240.6 A		216.5 A		240.6 A		210.5 A	
	Fault Current Contribution (1 cycle RMS)	390 A		390 A		351 A		312 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							
Temperature	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)	
	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							
	Advanced Grid Support Functionality	Rule 21, UL 1741SB							
	Testing Agency	ETL							
	FCC Compliance	FCC Part 15 (Subpart B, Class A)							
Warranty	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							

