

SOLECTRIA™ XGI 1500

PREMIUM 3-PHASE TRANSFORMERLESS UTILITY-SCALE INVERTERS

FEATURES

- Made in the USA with global components
- Buy American Act (BAA) compliant
- Four models:
 - 125kW/125kVA,
 - 125kW/150kVA,
 - 150kW/166kVA,
 - 166kW/166kVA
- 99.0% peak efficiency
- Flexible solution for distributed and centralized system architecture
- Advanced grid-support functionality
Rule 21/UL1741SA
- 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
- app for system visibility

OPTIONS

- String combiners for distributed and centralized systems
- Web-based monitoring
- Extended warranty

MADE IN THE USA



With U.S. and Global Components



Yaskawa Solectria Solar's XGI 1500 utility-scale string inverters are designed for high reliability and built of the highest quality components that were selected, tested and proven to last beyond their warranty.

XGI 1500 inverters provide advanced grid-support functionality and meet the latest IEEE 1547 and UL 1741 standards for safety. They are the most powerful 1500 VDC string inverters in the PV market and have been engineered for both distributed and centralized system architecture.

Designed and engineered in Lawrence, MA, XGI inverters are assembled and tested at Yaskawa America's facilities in Buffalo Grove, IL. They are Made in the USA with global components and are compliant with the Buy American Act.

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SOLECTRIA™ XGI 1500 TECHNICAL DATA

SPECIFICATIONS

SOLECTRIA XGI 1500 Model		XGI 1500-125/125	XGI 1500-125/150	XGI 1500-150/166	XGI 1500-166/166
DC Input	Absolute Maximum Input Voltage	1500 VDC	1500 VDC	1500 VDC	1500 VDC
	Maximum Power Input	860-1250 VDC	860-1250 VDC	860-1250 VDC	860-1250 VDC
	Voltage Range (MPPT)	860-1250 VDC	860-1250 VDC	860-1250 VDC	860-1250 VDC
	Operating Voltage Range (MPPT)	860-1450 VDC	860-1450 VDC	860-1450 VDC	860-1450 VDC
	Number of MPP Trackers	1 MPPT	1 MPPT	1 MPPT	1 MPPT
	Maximum Operating Input Current	148.3 A	148.3 A	178.0 A	197.7 A
	Maximum Operating PV Power	128 kW	128 kW	153 kW	170 kW
	Maximum DC/AC Ratio Max Rated PV Power	2.6 332 kW	2.6 332 kW	2.2 332 kW	2.0 332 kW
AC Output	Max Rated PV Short-Circuit Current ($\Sigma I_{sc} \times 1.25$)	500 A	500 A	500 A	500 A
	Nominal Output Voltage	600 VAC, 3-Ph	600 VAC, 3-Ph	600 VAC, 3-Ph	600 VAC, 3-Ph
	AC Voltage Range	-12% to +10%	-12% to +10%	-12% to +10%	-12% to +10%
	Continuous Real Output Power	125 kW	125 kW	150 kW	166 kW
	Continuous Apparent Output Power	125 kVA	150 kVA	166 kVA	166 kVA
	Maximum Output Current	120 A	144 A	160 A	160 A
	Nominal Output Frequency	60 Hz	60 Hz	60 Hz	60 Hz
	Power Factor (Unity default)	+/- 0.80 Adjustable	+/- 0.80 Adjustable	+/- 0.80 Adjustable	+/- 0.80 Adjustable
Efficiency	Total Harmonic Distortion (THD) @ Rated Load	<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)	144 A	173 A	192 A	192 A
	Peak Efficiency	98.9%	98.9%	99.0%	99.0%
	CEC Average Efficiency	98.5%	98.5%	98.5%	98.5%
	Tare Loss	<1 W	<1 W	<1 W	<1 W
	Ambient Temperature Range	-40°F to 140°F (-40C to 60C)	-40°F to 140°F (-40C to 60C)	-40°F to 140°F (-40C to 60C)	-40°F to 140°F (-40C to 60C)
	De-Rating Temperature	122°F (50C)	122°F (50C)	113°F (45C)	113°F (45C)
Temperature	Storage Temperature Range	-40°F to 167°F (-40C to 75C)	-40°F to 167°F (-40C to 75C)	-40°F to 167°F (-40C to 75C)	-40°F to 167°F (-40C to 75C)
	Relative Humidity (non-condensing)	0 - 95%	0 - 95%	0 - 95%	0 - 95%
	Operating Altitude	9,840 ft (3 km)	9,840 ft (3 km)	9,840 ft (3 km)	9,840 ft (3 km)
	Advanced Graphical User Interface			WiFi	
Communications	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 1741SA	
	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 250 A DC Disconnect	
	Mounting Angle			Vertical only	
	Dimensions			Height: 29.5 in. (750 mm) Width: 39.4 in. (1000 mm) Depth: 15.1 in. (380 mm)	
	Weight			270 lbs (122 kg)	
	Enclosure Rating and Finish			Type 4X, Polyester Powder-Coated Aluminum	

