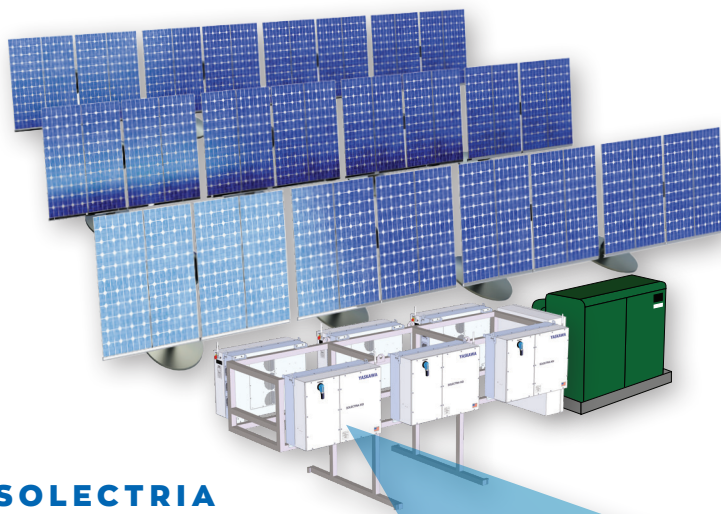


SOLECTRIA® XGI 1500 POWER RACK

0.5 - 2 MWAC FACTORY INTEGRATED AND TESTED

The Solectria® XGI 1500 Power Rack is the most robust, scalable building-block for state-of-the-art multi-MW solar plants.

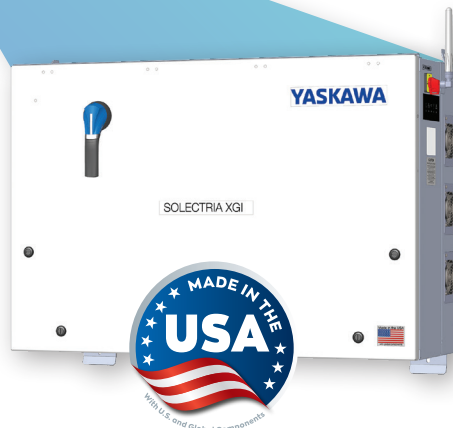


SOLECTRIA POWER RACK DESIGN

Based around the Solectria XGI 1500 utility-scale string inverters, the Power Rack is designed for high reliability, rapid deployment, and built to the highest standards of quality.

The modular design provides multiple independent MPPT zones per megawatt for improved power-point tracking and improves system up time with a simplified maintenance plan.

The XGI 1500 inverters provide advanced grid-support functionality and boast a true peak efficiency above 99%. The XGI 1500 inverters are the most powerful 1500V string inverters in the PV market. Designed and engineered in Lawrence, MA, the new Solectria Power Rack features the XGI 1500 utility-scale string inverters that are Made in the USA with global components and compliant with the Buy American Act.



FEATURES

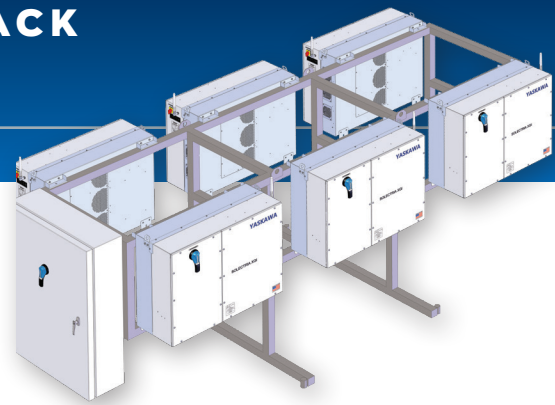
- Racks designed for up to four, six or eight XGI 1500 utility-scale string inverters, achieving up to 2 MWac in total, pre-mounted and pre-wired on a custom-fabricated strut-based galvanized steel rack
- Fused AC combiner for the output from the XGI 1500 inverters, with a load-break AC disconnect switch
- Pre-assembled and pre-wired AC and communications cabling
- Designed for rapid deployment
- Scalable alternative to central inverters with convenient access for maintenance and service
- True 99.0% peak efficiency
- Advanced grid-support functionality Rule21/UL1741SA
- Lowest O&M and installation costs
- Access all inverters on site via WiFi from one location
- Remote diagnostics and firmware upgrades
- XGI 1500 utility-scale string inverters are Made in the USA with global components and Buy American Act (BAA) compliant

OPTIONS

- PV Source Circuit Combiners: 16, 20, 24, 26, 28 position
- Configurations available using XGI 1500 models at 600Vac (125kW, 150kW, 166kW, 225kW, 250kW), and 480Vac (175kW and 200kW)
- Web-based monitoring
- Extended Warranty

SOLECTRIA® XGI 1500 POWER RACK

TECHNICAL DATA




DESIGN DETAILS

SOLECTRIA POWER RACK	
Inverters	POWER RACK™ models designed for four, six or eight XGI 1500 inverters, for flexibility in overall rating. The flagship POWER RACKs use the XGI 1500-250/250-600 for overall ratings of 1MW, 1.5MW and 2MW. Options to use any other XGI 1500 models at 600Vac (225kW, 166kW, 150kW, and 125kW) or 480Vac (200kW and 175kW).
AC Combiner	AC Combiner with fused terminations for XGI 1500 inverter AC output and a load-break disconnect for bussed AC output. Does not include GFP equipment; available as an option. Consult Yaskawa Solectria Solar for further details.
Rack	Custom fabricated, rugged strut-based galvanized steel rack.
Factory Assembly, Test & Quality Control	XGI 1500 inverters and AC Combiner secured to the POWER RACK™; AC output wiring run from the inverters to the AC Combiner, communications wiring run between the inverters. Tested in the factory to ensure the POWER RACK™ is ready to go in the field.

SOLECTRIA POWER RACK WEIGHT SPECIFICATIONS			
Mo del	Inverter Model	Inverter Quantity	Est. Rack Total Weight (lb) *
XGI-1500-166-PRU-6	XGI 1500-166/166	6	4100
XGI-1500-xxx-PRU-4	XGI 1500-xxx (where xxx can be: 175, 200, 225, or 250)	4	3000
XGI-1500-xxx-PRU-5		5	3900
XGI-1500-xxx-PRU-6		6	4200
XGI-1500-xxx-PRU-7		7	4900
XGI-1500-xxx-PRU-8		8	5200

* Includes rack, inverters, AC combiner, and all factory wiring and fittings

SPECIFICATIONS

Specification Data		POWER RACK MODELS					
		XGI 1500-250-PR4	XGI 1500-250-PR6	XGI 1500-250-PR8	XGI 1500-166-PR4	XGI 1500-166-PR5 / XGI 1500-166-PR6	XGI 1500-166-PR7 / XGI 1500-166-PR8
Configuration	Number of Inverters and Inverter Model	(4) XGI 1500-250/250-600	(6) XGI 1500-250/250-600	(8) XGI 1500-250/250-600	(4) XGI 1500-166/166	(5) XGI 1500-166/166 / (6) XGI 1500-166/166	(7) XGI 1500-166/166 / (8) XGI 1500-166/166
	DC Input to Inverters (field wired)	PV Output Circuit(s) field-wired to each XGI 1500 Inverter from Solectria CR1500-xx-yy-400 PV Source Circuit Combiners (see Options)			PV Output Circuit(s) field-wired to each XGI 1500 Inverter from Solectria CR1500-xx-yy PV Source Circuit Combiners (see Options)		
	AC Connections	Inverter Output Circuits factory-wired to SOLECTRIA AC Combiner; Combined AC output available for field wiring			Inverter Output Circuits factory-wired to the SOLECTRIA AC Combiner; Combined AC output available for field wiring		
DC Input (All specifications are per inverter)	Absolute Max DC Input Voltage	1500 Vdc			1500 Vdc		
	Full Power Voltage Range (MPPT)	860 Vdc - 1250 Vdc			860 Vdc - 1250 Vdc		
	Operating Voltage Range (MPPT)	860 Vdc - 1450 Vdc			860 Vdc - 1450 Vdc		
	Number of MPP Trackers	Single MPPT Zone			Single MPPT Zone		
	Max Operating PV Current	296.7 Adc (per XGI 1500-250/250-600 Inverter)			197.7 Adc (per XGI 1500-166/166 Inverter)		
	Max Operating PV Power	255 kWdc (per XGI 1500-250/250-600 Inverter)			170 kWdc (per XGI 1500-166/166 Inverter)		
	Max DC/AC Ratio Max Rated PV Power	2.0 500 kWdc (per XGI 1500-250/250-600 Inverter)			2.0 332 kWdc (per XGI 1500-166/166 Inverter)		
	Max Rated PV Short-Circuit Current (Σ Isc x 1.25)	800 Adc (per XGI 1500-250/250-600 Inverter)			500 Adc (per XGI 1500-166/166 Inverter)		
AC Output (All specifications are for the combined AC output)	Nominal AC Output Voltage (Range)	600 Vac, 3-Phase (-12% to +10%)			600 Vac, 3-Phase (-12% to +10%)		
	Continuous Real AC Output Power	1 MWac total	1.5 MWac total	2.0 MWac total	0.66 MWac total	0.83 MWac total / 1.0 Mwac total	1.17 MWac total / 1.33 MWac total
	Continuous Apparent Output Power	1 MVA total	1.5 MVA total	2.0 MVA total	0.66 MVA total	0.83 MVA total / 1.0 MVA total	1.17 MVA total / 1.33 MVA total
	Maximum AC Output Current	962.4 A total	1,444 A total	1,925 A total	(4) 640 A total	(5) 800 A total (6) 960 A total	(7) 1120 A total (8) 1440 A total
	Nominal Operating AC Frequency	60 Hz					
	Power Factor Adjustable Range (Unity default)	+/- 0.80 Adjustable					
	Total Harmonic Distortion (THD) @ Rated Power	< 5%					
	Grid Connection Type	3-Ph + N/GND					
	Fault Current Contribution (1 cycle RMS)	144 A (per XGI 1500-250/250-600 Inverter)			192 A (per XGI 1500-166/166 inverter)		
		All specifications in these columns are based on the XGI 1500-250/250-600. Consult SOLECTRIA for more information and specifications for the Power Rack™ using other XGI 1500-250 series inverter models (XGI 1500-225-600, XGI 1500-200/200-480, XGI 1500-175-480)			All specifications in these columns are based on the XGI 1500-166/166. Consult SOLECTRIA for more information and specifications for the Power Rack™ using other XGI 1500-166 series inverter models (XGI 1500-150/166, XGI 1500-125/150, XGI 1500-125/125)		