Hi-MO 5

LR5-72HBD **530~550M**

- Based on M10 wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency

M10 Gallium-doped Wafer 10-busbar Half-cut Cell

- Globally validated bifacial energy yield
- High module quality ensures long-term reliability



12-year Warranty for Materials and Processing



30-year Warranty for Extra Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval









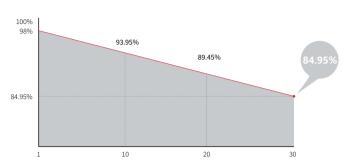


21.3%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

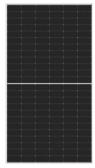
<2% FIRST YEAR POWER DEGRADATION 0.45% YEAR 2-30 POWER DEGRADATION HALF-CELL Lower operating temperature

Additional Value

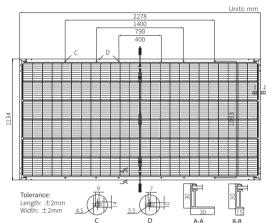


Mechanical Parameters

meenameat i arameters				
Cell	144(2x72) half-cut, made in USA with imported parts			
Junction Box	IP68, three diodes			
Output Cable	4mm², +400, -200mm/±1400mm length can be customized			
Glass	Dual glass, 2.0+2.0mm heat strengthened glass			
Frame	Anodized aluminum alloy frame			
Weight	31.8kg			
Dimension	2278×1134×30mm			
Packaging (USA)	36pcs per pallet / 180pcs per 20' GP / 576pcs per 40' HC;			







Electrical Characteristics	STC:	AM1.5 1000	N/m² 25°C	NOCT : AN	M1.5 800W/m	² 20°C 1m/	S Test ur	certainty for Pma	ıx: ±3%	
Module Type	LR5-72H	BD-530M	LR5-72H	IBD-535M	LR5-72HE	BD-540M	LR5-72H	BD-545M	LR5-72HBD)-550M
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	530	396.2	535	400.0	540	403.6	545	407.4	550	411.1
Open Circuit Voltage (Voc/V)	49.2	46.26	49.35	46.40	49.5	46.54	49.65	46.68	49.80	46.82
Short Circuit Current (Isc/A)	13.71	11.05	13.78	11.11	13.85	11.17	13.92	11.23	13.99	11.29
Voltage at Maximum Power (Vmp/V)	41.35	38.58	41.50	38.72	41.65	38.86	41.80	39.00	41.95	39.14
Current at Maximum Power (Imp/A)	12.84	10.27	12.91	10.33	12.97	10.39	13.04	10.45	13.12	10.51
Module Efficiency(%)	20	.5	20.7	7	20.	9	21	.1	21	1.3

Electical characteristics with different rear side power gain(reference to 530W)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
557	49.20	14.39	41.35	13.48	5%
583	49.20	15.08	41.35	14.12	10%
610	49.30	15.76	41.45	14.77	15%
636	49.30	16.45	41.45	15.41	20%
663	49.30	17.13	41.45	16.05	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	70±5%
Fire Rating	UL type 29 IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.265%/°C
Temperature Coefficient of Pmax	-0.340%/°C



Hi-MO 5 **(V4)**

LR5-72HBD 540~560M

- Based on M10 wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency
 - M10 Gallium-doped Wafer Integrated Segmented Ribbons 18-busbar Half-cut Cell
- Globally validated bifacial energy yield
- High module quality ensures long-term reliability



12-year Warranty for Materials and Processing



30-year Warranty for Extra Linear Power Output

Complete System and **Product Certifications**

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval











21.7% MAX MODULE EFFICIENCY

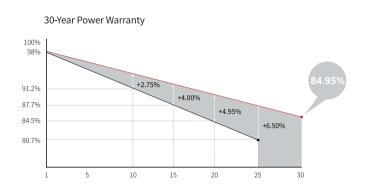
0~3%
POWER
TOLERANCE

<2%FIRST YEAR
POWER DEGRADATION

0.45%YEAR 2-30
POWER DEGRADATION

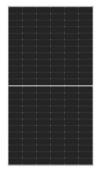
HALF-CELLLower operating temperature

Additional Value

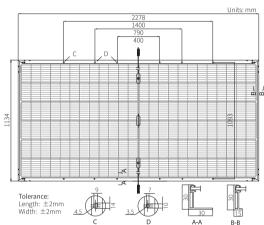


Mechanical Parameters

McCilaii	icat i arameters
Cell Orienta	tion 144 (6×24)
Junction Bo	ox IP68, three diodes
Output Cab	le 4mm², +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Weight	31.8kg
Dimension	2278×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20' GP / 720pcs or 576pcs (Only for USA) per 40' HC







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Electrical Characteristics	STC: AM1.5 1000W/m ²	25°C NOCT : AM1.5	5 800W/m ² 20°C 1m/s	Test uncertainty for Pmax	: ±3%

Module Type	LR5-72H	BD-540M	LR5-72F	IBD-545M	LR5-72H	IBD-550M	LR5-72H	IBD-555M	LR5-72H	IBD-560M
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	540	403.6	545	407.4	550	411.1	555	414.8	560	418.6
Open Circuit Voltage (Voc/V)	49.50	46.54	49.65	46.68	49.80	46.82	49.95	46.97	50.10	47.11
Short Circuit Current (Isc/A)	13.85	11.17	13.92	11.23	13.99	11.29	14.05	11.34	14.10	11.38
Voltage at Maximum Power (Vmp/V)	41.65	38.86	41.80	39.00	41.95	39.14	42.10	39.28	42.25	39.42
Current at Maximum Power (Imp/A)	12.97	10.39	13.04	10.45	13.12	10.51	13.19	10.56	13.26	10.62
Module Efficiency(%)	20).9	2	1.1	2:	1.3	2	1.5	2:	1.7

Electrical characteristics with different rear side power gain (reference to 550W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
578	49.80	14.68	41.95	13.77	5%
605	49.80	15.38	41.95	14.43	10%
633	49.90	16.08	42.05	15.08	15%
660	49.90	16.78	42.05	15.74	20%
688	49.90	17.48	42.05	16.39	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C	
Power Output Tolerance	0 ~ 3%	
Maximum System Voltage	DC1500V (IEC/UL)	
Maximum Series Fuse Rating	30A	
Nominal Operating Cell Temperature	45±2°C	
Protection Class	Class II	
Bifaciality	70±5%	
Fire Rating	UL type 29 IEC Class C	
	ILC Cid33 C	

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.265%/°C
Temperature Coefficient of Pmax	-0.340%/°C



SOLECTRIATM 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





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.



SOLECTRIA™ XGI 1500 TECHNICAL DATA

SPECIFICATIONS

SOLECTRIA XGI 1500	O 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 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		
	Max Rated PV Short-Circuit Current (ΣIsc x 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 Output	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		
	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		
Efficiency	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		
Temperature	Ambient Temperature Range	-40°F to 140°F (-40C to 60C) -40°F to 140°F (-40C to 60C)			(-40C to 60C)		
	De-Rating Temperature	122°F (50C)		113°F (45C)			
	Storage Temperature Range	-40°F to 167°F (-40C to 75C) -40°F to 167°F (-40C to					
	Relative Humidity (non-condensing)	0 - 95%		0 - 95%			
	Operating Altitude	9,840 ft (3 km) 9,840 ft (3 km)					
	Advanced Graphical User Interface	WiFi					
0	Communication Interface	Ethernet					
Communications	Third-Party Monitoring Protocol Web-Based Monitoring	SunSpec Modbus TCP/IP Optional					
	Firmware Updates	Optional Remote and Local					
	Safety Listings & Certifications	UL 1741, IEEE 1547, UL 1998					
	Advanced Grid Support Function-	· · · · · ·					
Testing & Certifications	ality	Rule 21, UL 1741SA					
	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 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					





