



Sustainability | Longevity | Reliability

TECHNICAL DATASHEET 2026

Solar manufacturing built for the long run.



KiranVolt

BIFACIAL N-TYPE TOPCON G12R

132 Half-Cut Cells | Dual Glass

600-635 Wp
Power Range

Upto 23.5%
Module Efficiency

-0.30%/°C
Temp. Coeff.

12 years
Product Warranty*

30 years
Performance Warranty*

*Please read SLR SOLAR warranty documents thoroughly

SUSTAINABILITY | LONGEVITY | RELIABILITY

FOLLOW US AT:

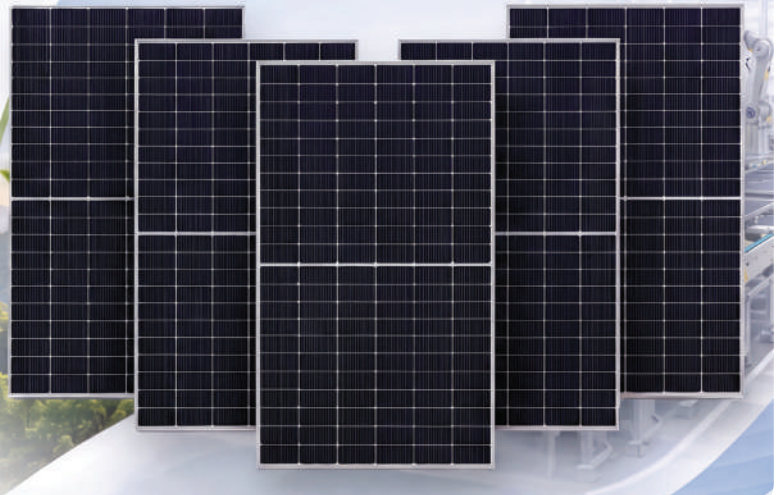


Model Series: SLR-HG132N-XXX

KiranVolt

BIFACIAL N-TYPE TOPCON G12R

132 Half-Cut Cells | Dual Glass



N-Type with Very Low LID

Resulting in higher power generation



Positive Tolerance

Power output is guaranteed with a positive tolerance



Excellent performance in low light

Superior output in low irradiance. Increased power production even in low-light environments.



Better Temperature coefficient (-0.30%/°C)

Higher power generation under higher ambient temperature conditions.



Higher Module Efficiency

Module Efficiency Upto 23.5%



Higher Energy Yield with Bifacial Technology

When compared with the P-type module



Advanced technology

MBB-Multi-Busbar (16BB) Half-cut N-TOPCon cell



Extended Wind and Snow Loads

Wind Load (2400 Pa) and Snow Load (5400 Pa)



Designed for Harsh Environments

Reliable quality leads to better sustainability, even in harsh environments such as deserts, Farms, coastal and the areas with ammonia exposure



Rigorous testing criteria

100% EL inspection, ensures defect-free modules



Bifaciality factor 80±5%

Ratio of rear-side efficiency to front-side efficiency under the same irradiance conditions.



Product Warranty **

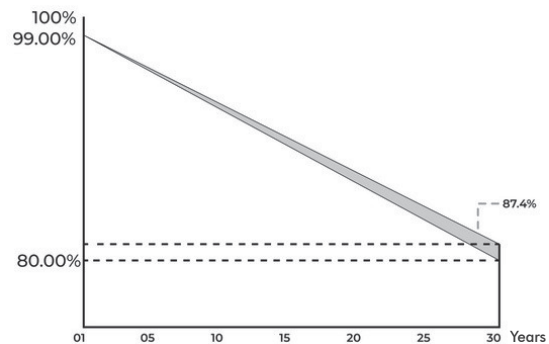
12 years of product warranty



Performance Warranty **

Power degradation <1.0% in first year and <0.40% / year in 2 to 30 years

**Please read SLR SOLAR warranty documents thoroughly



CERTIFICATIONS & STANDARDS



Approved List of Models and Manufacturers (ALMM) List-I with an annual capacity of 1,020 MW



IEC 61215 series:2021
IEC 61730-2
IEC TS 63209-1:2021
IEC 62716:2013
IEC 61853-1: 2011
IEC TS 63342: 2022
IEC 63202.1: 2019
IEC TS 62804-1:2015
IEC 61701: 2020



ISO 9001:2015 - Quality
ISO 14001:2015 - Environmental
ISO 45001:2018 - Occupational Health & Safety



BIS 14286 IS series: 2023
IS/IC 61730-1 2023
IS/IC 61730-2: 2023



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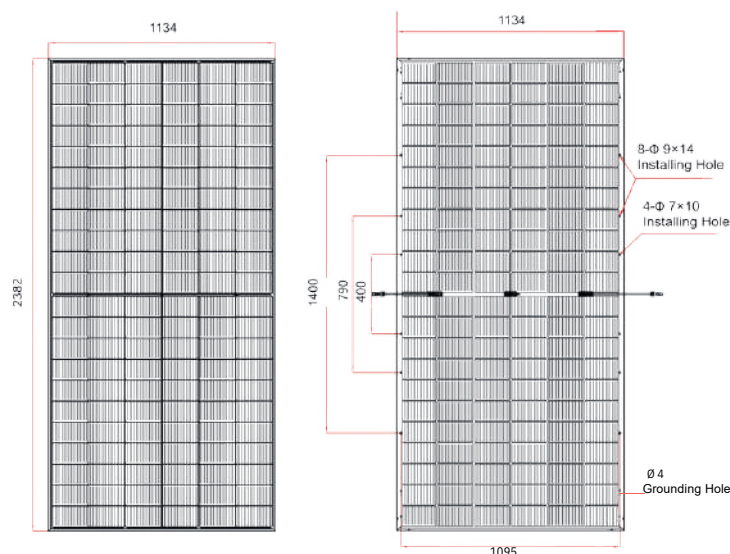
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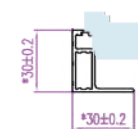
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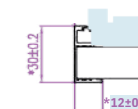




Module mechanical drawings (132 half cut cells)
all dimensions are in mm
Tolerance ± 1 mm



FRAME CROSS SECTION
(LONG SIDE)



FRAME CROSS SECTION
(SHORT SIDE)

Drawing Parameters	
Y1 Pitch	1400 mm
Y2 Pitch	790 mm
Y3 Pitch	400 mm
X Pitch	1095 mm

ELECTRICAL CHARACTERISTICS (STC)		SLR-HG132N-XXX					
Peak power, P _{Max} (Wp)		610	615	620	625	630	635
Maximum voltage, V _{mp} (V)		40.80	41.00	41.20	41.34	41.54	41.72
Maximum Current, I _{mp} (A)		14.96	15.01	15.05	15.13	15.17	15.23
Open Circuit Voltage, V _{oc} (V)		48.70	48.90	49.10	49.30	49.50	49.70
Short Circuit current, I _{sc} (A)		15.85	15.91	15.97	16.03	16.09	16.15
Module Efficiency(%)		22.58%	22.77%	22.95%	23.14%	23.32%	23.51%
Fill Factor(%)		79.07%	79.10%	79.08%	79.15%	79.12%	79.16%
Power Tolerance		0 to +5 W					
Maximum System Voltage		1500 V (IEC&UL)					
Maximum Series Fuse Rating		30 A					

STC: Irradiance 1000W/m², module temperature 25°C, AM =1.5; NOCT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind Speed 1m/s. Average power reduction of 4.5% at 200W/m² as per IEC 60904-1, Except P_{mp}, all other parameters have tolerance of $\pm 3\%$. Measurement uncertainty <3%

MECHANICAL SPECIFICATIONS	
External Dimensions	2382 X 1134 X 30 mm
Weight	33.5 Kg
Solar Cells	16 BB, TopCon, 105 mm X 182.3 mm
Front Glass	2.0 mm
Rear Cover	2.0 mm
Frame	Anodized Aluminium Alloy (Silver)
Junction Box	3 Split, IP 68 Rated
Connector	MC4 Connector
Mechanical Load	5400 Pa for Snow load, 2400 Pa Wind Load
Output Cable	1 x 4 mm ² , 400 mm

PACKING CONFIGURATION	
Container	40' HQ
Pieces per Pallet	36
Pallet per Container	20
Pieces per Container	720

ELECTRICAL CHARACTERISTICS (BNPI)		610	615	620	625	630	635
Nominal Maximum Power(W)		667.65	673.12	678.59	684.06	689.54	695.01
Maximum voltage, V _{mp} (V)		40.80	41.00	41.20	41.34	41.54	41.72
Maximum Current, I _{mp} (A)		16.37	16.43	16.47	16.56	16.60	16.67
Open Circuit Voltage, V _{oc} (V)		48.70	48.90	49.10	49.30	49.50	49.70
Short Circuit current, I _{sc} (A)		17.35	17.41	17.48	17.54	17.61	17.68

ELECTRICAL CHARACTERISTICS (NOCT)		610	615	620	625	630	635
Nominal Maximum Power(W)		460	464	468	472	476	480
Maximum voltage, V _{mp} (V)		38.00	38.20	38.30	38.50	38.60	38.80
Maximum Current, I _{mp} (A)		12.12	12.16	12.19	12.25	12.30	12.35
Open Circuit Voltage, V _{oc} (V)		45.80	46.00	46.20	46.40	46.60	46.80
Short Circuit current, I _{sc} (A)		12.80	12.85	12.90	12.95	13.00	13.05

Power gain from the rear side depends on the ground reflectance (Albedo) & Bifaciality factor

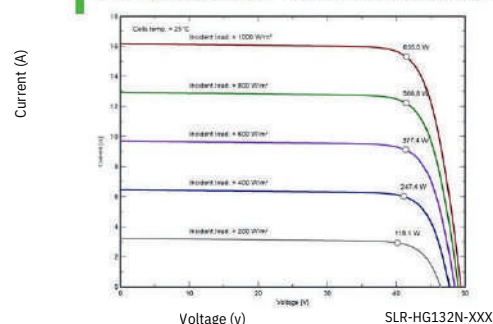
Gain	610	615	620	625	630	635
Maximum Power(P _{max}) 5%	640.50	645.75	651.00	656.25	661.50	666.75
Maximum Power(P _{max}) 10%	671.00	676.50	682.00	687.50	693.00	698.50
Maximum Power(P _{max}) 20%	732.00	738.00	744.00	750.00	756.00	762.00
Maximum Power(P _{max}) 30%	793.00	799.50	806.00	812.50	819.00	825.50

Cell Temp = 25°C		TEMPERATURE CHARACTERISTICS	
Incident Irrad = 1000 W/m ²	650 W	P _{max} Temp. Coefficient	- 0.30 %/°C
Incident Irrad = 800 W/m ²	520 W	V _{oc} Temp. Coefficient	- 0.25 %/°C
Incident Irrad = 600 W/m ²	390 W	I _{sc} Temp. Coefficient	0.04
Incident Irrad = 400 W/m ²	260 W	Operating Temp.	-40°C to + 85°C
Incident Irrad = 200 W/m ²	130 W	Nominal Operating Cell Temp.	45±2°C

I-V Characteristics At Different Irradiations

PV MODULE SLR-HG132N-635

I-V VARIATION WITH IRRADIANCE



Note:-

- The specification included in this datasheet are subjected to change without notice.
- The electrical data given here is for reference purpose only.
- Refer installation Manual instruction & SLR warranty statement for Terms & Conditions.
- Please confirm your exact requirements with the sales representative while placing your order

MEET SLR SOLAR AT REI EXPO 2026

THE FUTURE OF ENERGY IS HERE



Hall No.

9

Visit Us At
Booth No.

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Discover our range of ALMM-listed, high-quality solar PV modules, including our advanced TOPCon G12R modules. We look forward to meeting our customers, partners, dealers, distributors and industry colleagues at REI 2026.

LET'S BUILD THE FUTURE OF SOLAR TOGETHER.



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