Helia NXT

DUAL GLASS | TOPCON MODULE

JAKSON SOLAR

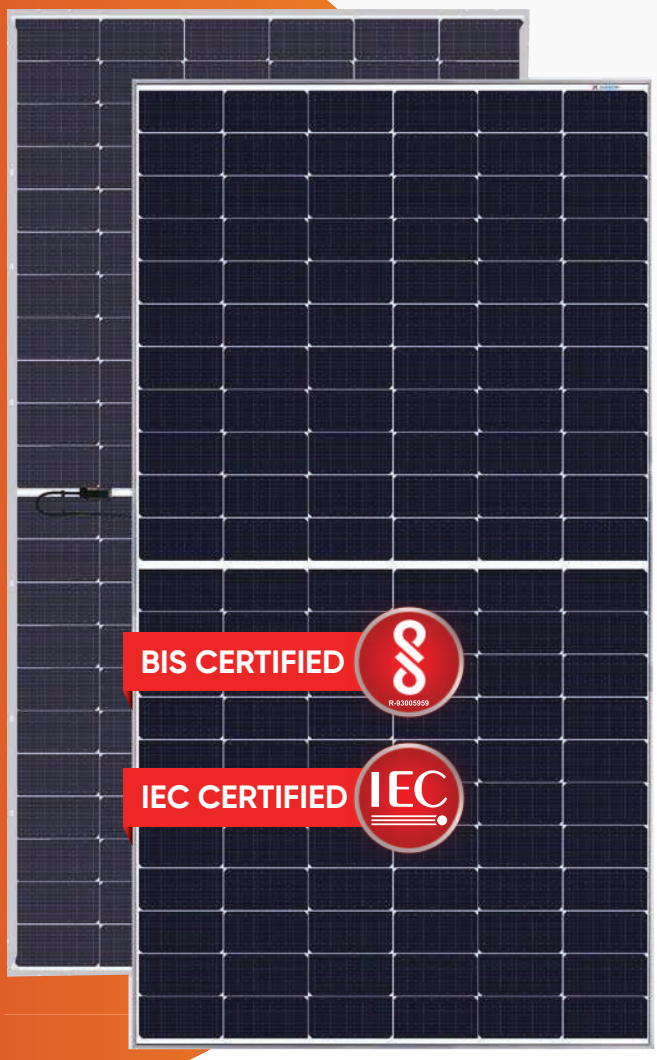
NEXT GEN *N-TYPE BIFACIAL* SOLAR PV MODULE

610 - 625 Wp
MAXIMUM POWER OUTPUT

0~+5W
POSITIVE POWER TOLERANCE

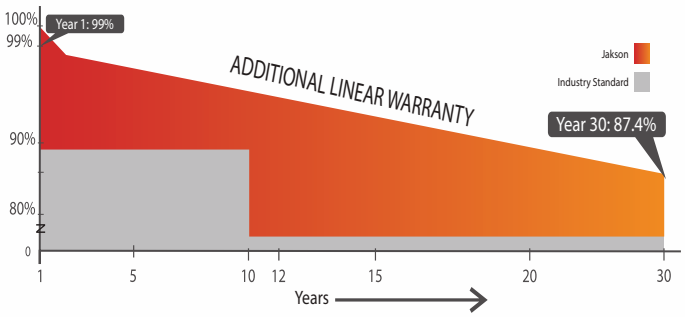
23.16 %
MAXIMUM EFFICIENCY

RECTANGULAR 132 CELLS, 16BB



- Lower LID & Per Year Degradation - Enhanced Power Generation Using TOPCon Technology
- Lower LCOE & Faster ROI
  Higher Bifaciality, Lower BOS Cost
- Meeting Highest Quality Standards
  Manufactured Using Certified Tier 1 BOM
- Improved Temperature Coefficients
  Better Generation at Higher Temprature
- Excellent Module Performance
  Reduced Resistive Loss with MBB Technology
- Bifacial gain of Up To 30% with Dual Glass Module, Capable of Energy Generation with Both Direct and Reflected Sunlight.

Linear Performance Warranty



Approvals and Certificates

ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 MAKE IN INDIA

IEC 61215, IEC 61730 (1 & II) IEC 61853, IEC 62804, IEC 60068, IEC 61701, IEC 62716, IS 14286 (BIS)
ISO 9001: 2015, 14001: 2015, 45001: 2018 certified

TOPCON SOLAR PV MODULES
WITH DUAL GLASS

610-625Wp

ELECTRICAL DATA - STC* & NOCT**

Model	Unit	JN-610GR		JN-615GR		JN-620GR		JN-625GR	
Parameters		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Capacity rating Wp	Pmax	610	461	615	465	620	469	625	473
Max. Power Volatage in V	Vmp	40.94	38.55	41.09	38.69	41.23	38.82	41.37	38.96
Max. Power Current in A	Imp	14.90	11.96	14.97	12.01	15.04	12.07	15.11	12.13
Open Circuit Voltage in V	Voc	49.26	46.86	49.47	47.06	49.67	47.25	49.87	47.44
Short Circuit Current in A	Isc	15.77	12.62	15.83	12.66	15.89	12.71	15.95	12.76
Module Efficiency	%	22.60		22.79		22.97		23.16	
Power Tolerance	Wp	-0/+4.99							

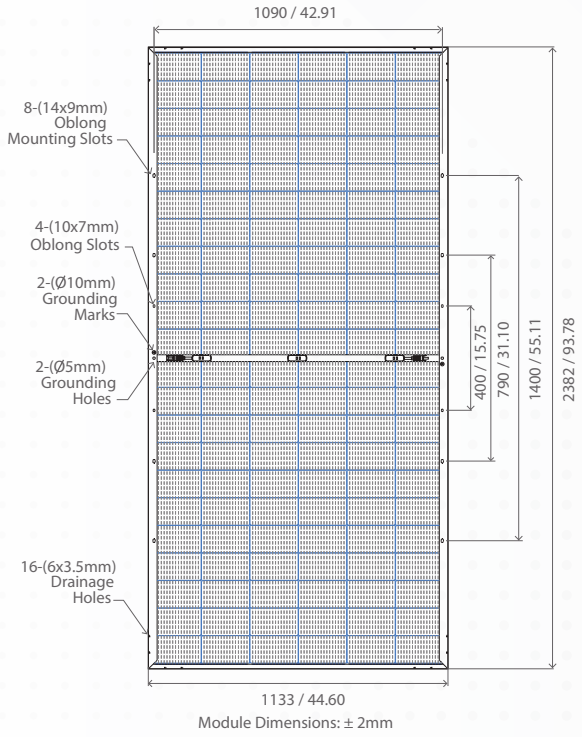
*STC: Irradiance 1000 W/m² , cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m² according to EN 60904-1. Measurement uncertainty ± 3%
**NOCT: Irradiance 800 W/m², ambient temperature 20°C, wind speed 1m/sec

BI-FACIAL OUTPUT - REARSIDE POWER GAIN

Model		JN-610GR	JN-615GR	JN-620GR	JN-625GR
10%	Power Output (W)	671	677	682	688
	Module Efficiency(%)	24.86	25.09	25.27	25.49
15%	Power Output (W)	702	707	713	719
	Module Efficiency(%)	26.01	26.20	26.42	26.64
20%	Power Output (W)	732	738	744	750
	Module Efficiency(%)	27.12	27.35	27.57	27.79
25%	Power Output (W)	763	769	775	781
	Module Efficiency(%)	28.27	28.49	28.72	28.94
Bifaciality Factor		80±5%			

*Bifaciality gain is dependent on various factors (Ground Reflectance, Tilt Angle, Location etc)

Dimension of PV Module
Unit: mm/in



Module Dimensions: ± 2mm

MECHANICAL DATA

Dimensions (L x W x H)	MM: 2382 x 1133 x 35/30 | IN: 93.78 x 44.60 x 1.37/1.18
Weight	33.5 kgs | 73.85 lbs (±2%)
Junction Box	Split JB, IP68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm² / 0.006 in², 400 mm / 15.75 in (Higher Cable option available on request)
Front Superstrate	2.0 mm / 0.079 in, High Transmission, AR coated
Solar Cells	N-Type TOPCon - G12R (Rectangular 132 pcs Half Cut)
Cell Encapsulation	PID & UV Resistant (Coextruded POE)
Back Substrate	2.0 mm / 0.079 in, Heat strengthend Glass (Optional White Grid)
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

TEMPERATURE RATINGS

Temperature Coefficient of Voc (β)	-0.25%/°C
Temperature coefficient of Isc (α)	0.046%/°C
Temperature coefficient of Pmax (Y)	-0.30%/°C

PERMISSIBLE OPERATING CONDITIONS

Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 VDC
Max. Series Fuse Rating	35 A

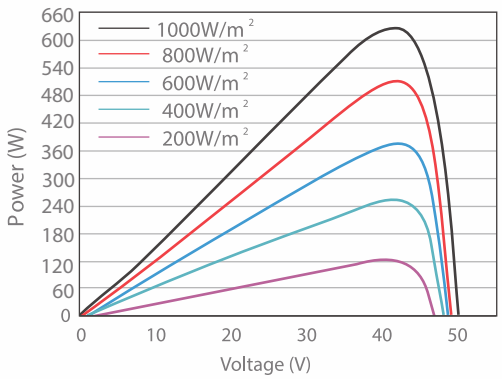
WARRANTY AND CERTIFICATIONS

Product Warranty	12 Years Product Warranty
Performance Guarantee	30 Year Linear Performance Warranty

PACKAGING CONFIGURATION

Vehicle Type	32FT	40FT
Modules Per Pallet	28	28
Modules Per Container	420	560

Power-Voltage Curve



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