

NEXT GEN N-TYPE BIFACIAL SOLAR PV MODULE

610 - 630 Wp

MAXIMUM POWER OUTPUT

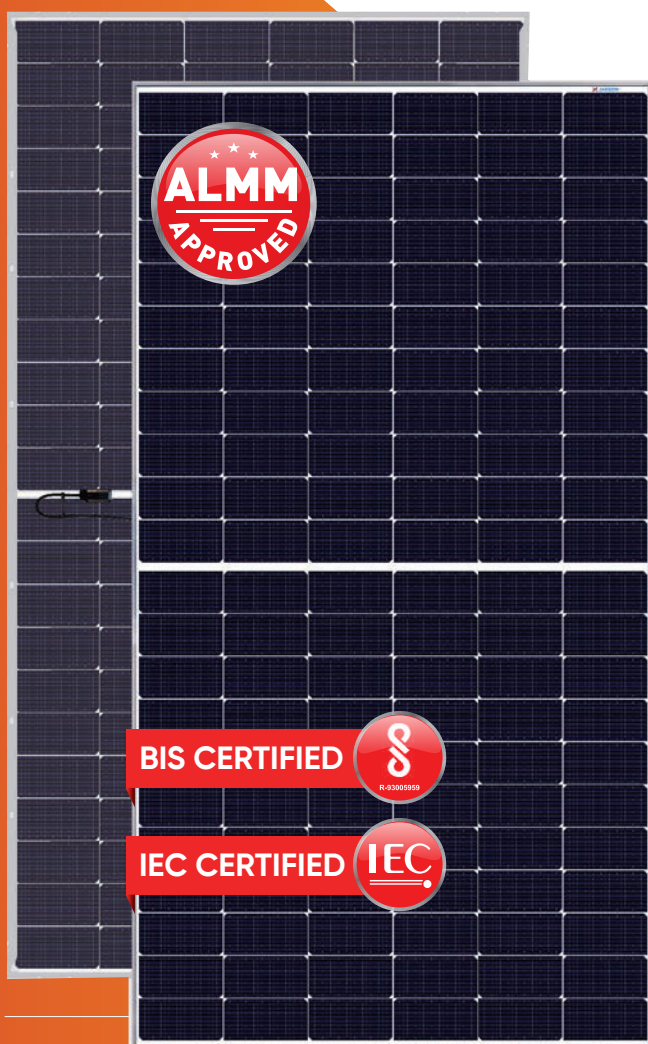
0~+5W

POSITIVE POWER TOLERANCE

23.34 %

MAXIMUM EFFICIENCY

USING LATEST RECTANGULAR TOPCON CELLS, (G12R)



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 Temperature

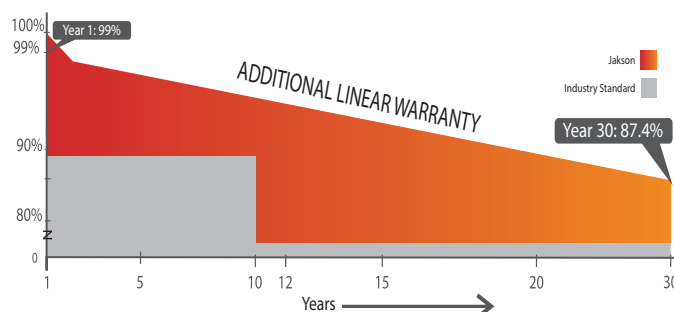


Excellent Module Performance - Reduced Resistive Loss with MBB Technology



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



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

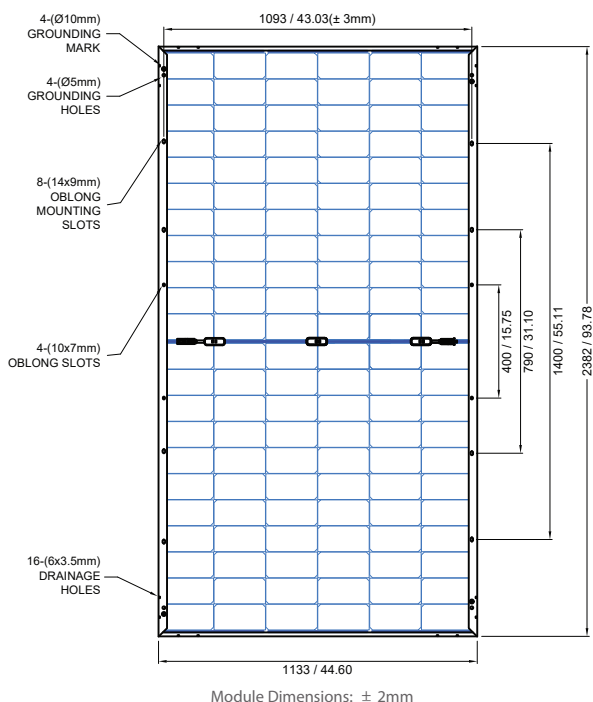


TOPCON SOLAR PV MODULES WITH DUAL GLASS

610-630Wp



Dimension of PV Module
Unit: mm/in



ELECTRICAL DATA - STC*

Model	Unit	JN-610GR	JN-615GR	JN-620GR	JN-625GR	JN-630GR
Parameters		STC	STC	STC	STC	STC
Capacity rating Wp	Pmax	610	615	620	625	630
Max. Power Voltage in V	Vmp	40.94	41.09	41.23	41.37	41.51
Max. Power Current in A	Imp	14.90	14.97	15.04	15.11	15.18
Open Circuit Voltage in V	Voc	49.26	49.47	49.67	49.87	50.07
Short Circuit Current in A	Isc	15.77	15.83	15.89	15.95	16.01
Module Efficiency	%	22.60	22.79	22.97	23.16	23.34
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%

BI-FACIAL OUTPUT- REAR SIDE POWER GAIN

Model		JN-610GR	JN-615GR	JN-620GR	JN-625GR	JN-630GR
10%	Power Output (W)	671	677	682	688	693
	Module Efficiency (%)	24.86	25.09	25.27	25.49	25.67
15%	Power Output (W)	702	707	713	719	724
	Module Efficiency (%)	26.01	26.20	26.42	26.64	26.82
20%	Power Output (W)	732	738	744	750	756
	Module Efficiency (%)	27.12	27.35	27.57	27.79	28.01
25%	Power Output (W)	763	769	775	781	787
	Module Efficiency (%)	28.27	28.49	28.72	28.94	29.16
Bifaciality Factor		80±5%				

MECHANICAL DATA

Dimensions (L x W x H)	MM: 2382 x 1133 x 30 IN: 93.78 x 44.60 x 1.18
Weight	33 kgs 72.75 lbs (±3%)
Junction Box	Split JB, IP68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm ² / 0.006 in ² , 300 mm / 11.81 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 strengthened 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)	0.045%/ °C
Temperature Coefficient of Pmax (γ)	-0.29%/ °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 Years Linear Performance Warranty

PACKAGING CONFIGURATION

Vehicle Type	32FT	40FT
Modules Per Pallet Qty Nos	32	32/36
Modules Per Container Qty Nos	480	704/720

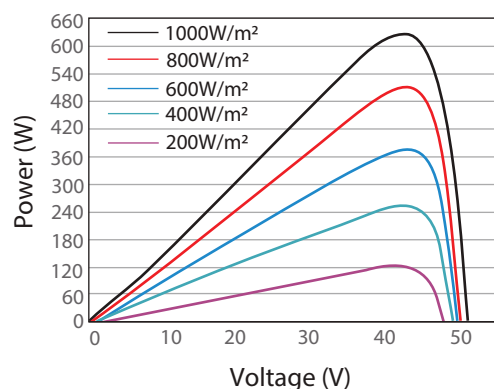
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Power-Voltage Curve



Product specifications are subject to change without notice
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