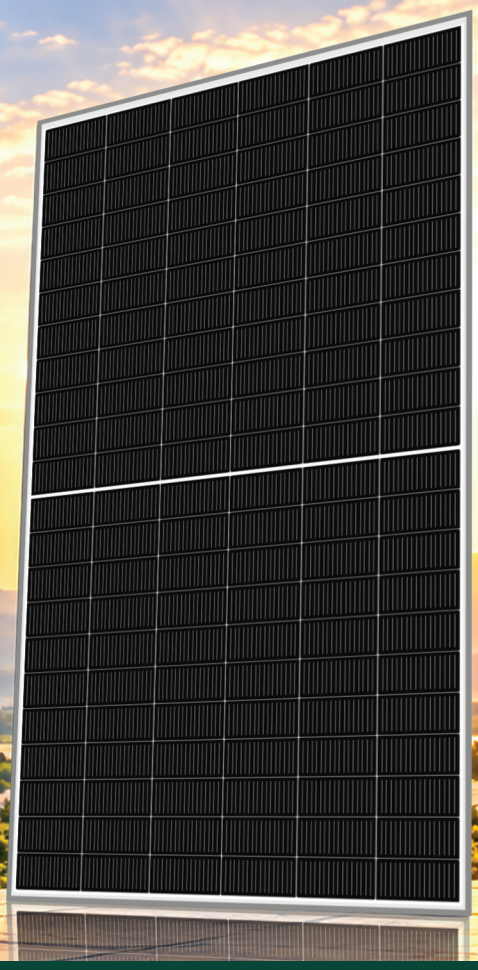
INDOSOL®



INTRODUCING

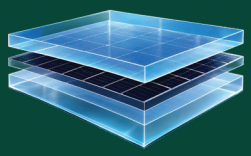
INDOSOL REAL™

G12R N-TYPE TOPCon MODULE
BIFACIAL GLASS-GLASS

ENERGY. DELIVERED.
POWERED BY **INDOSOL TRUE CELL™**

Proven cell technology
Real world performance

R
RELIABILITY



Built to withstand harsh field conditions.

- **PID RESISTANT**
- **5400 Pa / 2400 Pa** SNOW & WIND LOADS
- **IP68** JUNCTION BOX
- **GLASS-GLASS CONSTRUCTION**

E
ENERGY YIELD



Superior performance under low irradiance and diffuse light conditions.

- **600 - 630 wp HIGH POWER OUTPUT**
- **BETTER WEAK LIGHT PERFORMANCE**
- **HIGHER COMMERCIAL GAINS, LOWER LCOE**

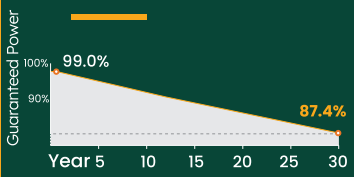
A
ALL-WEATHER PERFORMANCE



Consistent performance across changing temperatures and demanding environments.

- **-0.30 %/°C** LOW TEMPERATURE COEFFICIENT (Pmax)
- **-40°C to +85°C** OPERATING TEMPERATURE RANGE
- **EXCELLENT PERFORMANCE IN HIGH TEMPERATURE CONDITIONS**

L
LONGEVITY



Designed for sustained performance over decades.

- **30 YEARS PERFORMANCE WARRANTY**
- **12 YEARS PRODUCT WARRANTY**
- **PROVEN LONG-TERM VALUE**

KEY SPECIFICATIONS

600 - 630 Wp	23.3%	80 ± 10%	1500 V
POWER OUTPUT (STC)	MODULE EFFICIENCY (STC)	BIFACIALITY	SYSTEM VOLTAGE

www.indosolsolar.com

TOPCon PV Module
Bifacial Glass-Glass Configuration
G12R 132 Cut Cell 16BB

Electrical Characteristics

Models	Pmax (W)		Vmp (V)		Imp (A)		Isc (A)		Voc (V)		Module Eff. (%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
ISTD2M16BN2600	600	453	40.54	37.78	14.80	11.93	15.82	12.75	48.30	45.89	22.21
ISTD2M16BN2605	605	457	40.74	37.97	14.85	11.97	15.87	12.79	48.50	46.08	22.40
ISTD2M16BN2610	610	461	40.94	38.16	14.90	12.01	15.92	12.83	48.70	46.27	22.58
ISTD2M16BN2615	615	464	41.14	38.34	14.95	12.05	15.97	12.87	48.90	46.46	22.77
ISTD2M16BN2620	620	468	41.33	38.52	15.00	12.09	16.02	12.91	49.10	46.65	22.95
ISTD2M16BN2625	625	472	41.53	38.70	15.05	12.13	16.07	12.95	49.30	46.84	23.14
ISTD2M16BN2630	630	476	41.72	38.88	15.10	12.17	16.12	12.99	49.50	47.03	23.32

*Standard Test Conditions (STC) - 1000 W/m2 irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m2 irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m2 as per IEC 60904-1. Measuring Uncertainty ± 3%.

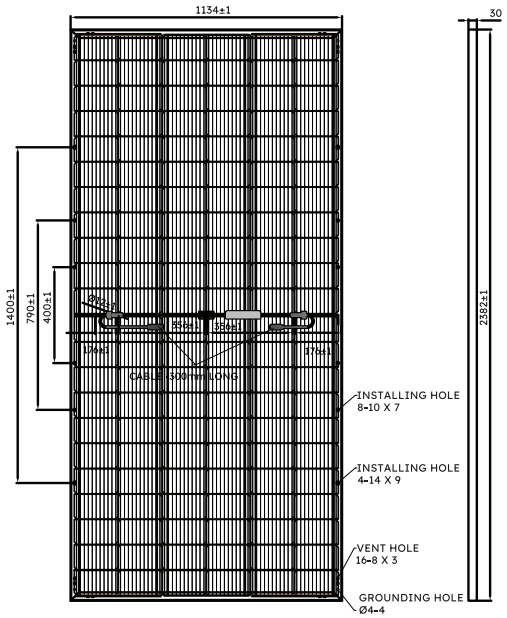
System Voltage : 1500 V

Series Fuse Rating : 30 A

BI-Facial Output - Backside Power Gain*

		600	605	610	615	620	625	630
10%	Power Output (W)	660	666	671	677	682	688	693
	Module Efficiency (%)	24.43	24.64	24.84	25.05	25.25	25.45	25.65
15%	Power Output (W)	690	696	702	707	713	719	725
	Module Efficiency (%)	25.54	25.76	25.97	26.19	26.39	26.61	26.82
20%	Power Output (W)	720	726	732	738	744	750	756
	Module Efficiency (%)	26.65	26.88	27.10	27.32	27.54	27.77	27.98
25%	Power Output (W)	750	756	763	769	775	781	788
	Module Efficiency (%)	27.76	28.00	28.23	28.46	28.69	28.93	29.15
30%	Power Output (W)	780	787	793	800	806	813	819
	Module Efficiency (%)	28.87	29.12	29.35	29.60	29.84	30.08	30.32

Design Specifications



Thermal Characteristics

Temperature coeffcient of Current (Isc), α (%/°C)	0.046
Temperature coeffcient of Voltage (Voc), ß (%/°C)	-0.26
Temperature coeffcient of Power (Pm), γ (%/°C)	-0.30
NOCT (°C)	43 ± 2
Operating temperature range (°C)	-40 to 85
Bifaciality	80 ± 10

Mechanical Characteristics

Length x Width x Thickness (L x W x T)	2382 mm (L) x 1134 mm (W) x 30 mm (T)
Weight	33.8 kgs
Solar Cells per Module (Units) / Arrangement	132 cells / (11x6 || 11x6)
Solar Cell Type & Size	G12R N-type TOPCon Bifacial
Front Glass (Material / Thickness)	2 mm Low Iron HTAR semi-tempered glass
Back Glass (Material / Thickness)	2 mm Low Iron Printed semi-tempered glass
Encapsulate	PID Free & UV Resistant
Junction Box (Protection degree / Material)	IP68 / Weatherproof PPO
Cable & Connector (Protection degree / Type)	IP68 rated / MC4 compatible
Cable cross - section & Length	4 mm2 & 300mm
Frame	Anodized Aluminium Alloy

*** The electrical data given here is for reference purpose only. Please confirm your exact requirements with the sales representative while placing your order.**
Refer installation Manual instructions & Indosol Solar warranty statement for terms & conditions. Indosol Solar Reserves the right to change the specifications without prior notice.

INDOSOL SOLAR PRIVATE LIMITED

Factory: Survey No: 585/2, 585-5, 593-2A, Chevuru Village, Gudluru, Prakasam Dist., Andhra Pradesh, India - 523291

HQ: Aurobindo Galaxy Towers, 16th Floor, A wing, Rayadurgam, Hyderabad, Telangana, India - 500081

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