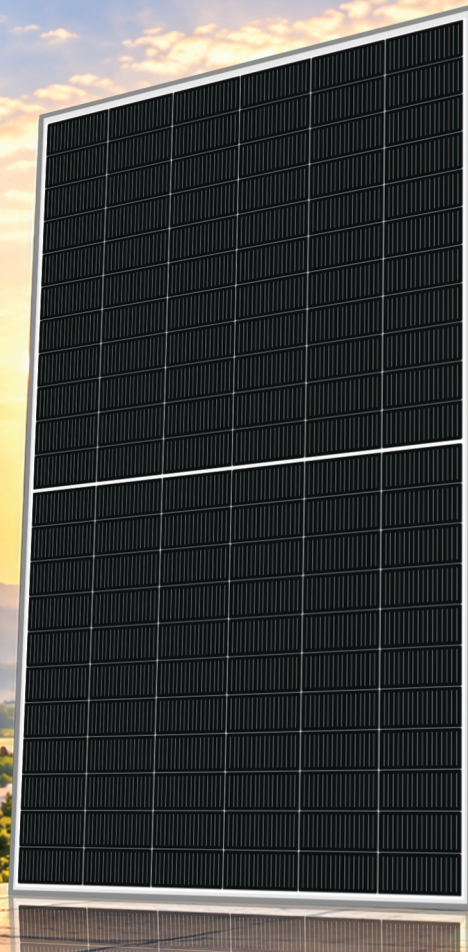
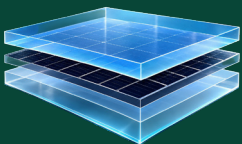
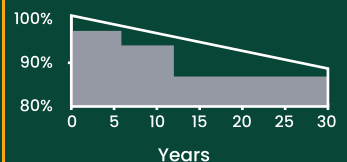


INTRODUCING

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 (P_{max})****-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**
POWER OUTPUT (STC)**23.3%**
MODULE EFFICIENCY (STC)**80 ± 10%**
BIFACIALITY**1500 V**
SYSTEM VOLTAGE

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

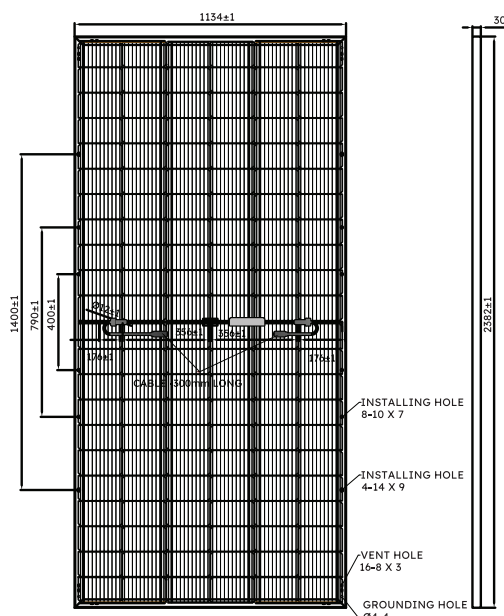
*Standard Test Conditions (STC) - 1000 W/m² irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m² irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m² as per IEC 60904-1. Measuring Uncertainty ± 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 coefficient of Current (Isc), α (%/°C)	0.046
Temperature coefficient of Voltage (Voc), β (%/°C)	-0.26
Temperature coefficient 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 mm ² & 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.



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