PLEXUS SERIES
HETEROJUNCTION TECHNOLOGY

BiH-11-700 to BiH-11-730
Framed Dual Glass Bifacial HJT Module

WAAREE
One with the Sun

Highest reliability & enhanced crack tolerance MBB module

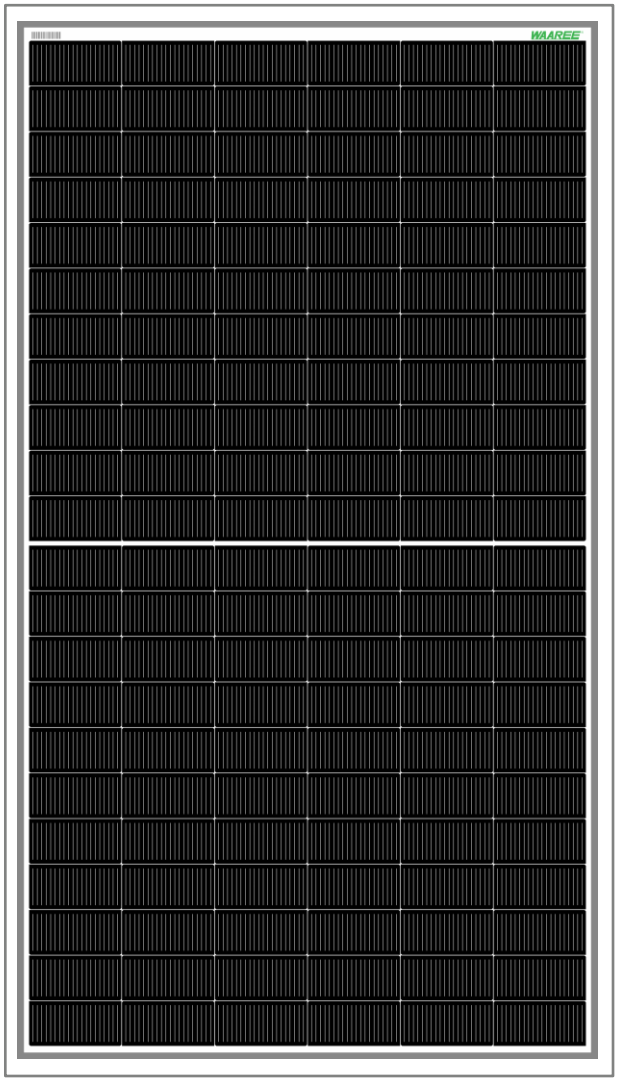
Sustain heavy snow & wind loads (5400 Pa & 2400 Pa)

Best in class thermal coefficients

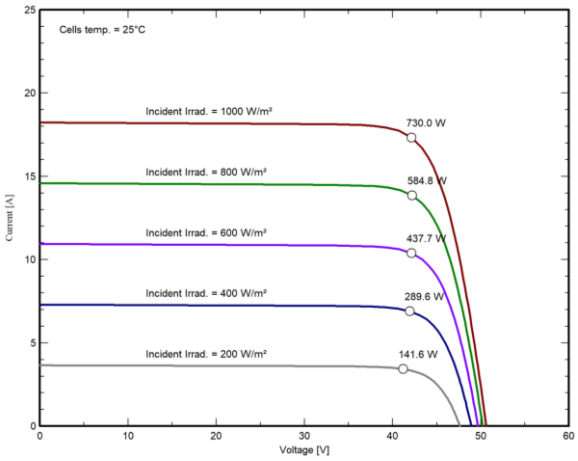
Highest commercial gains, lower LCOE

Better weak light performance

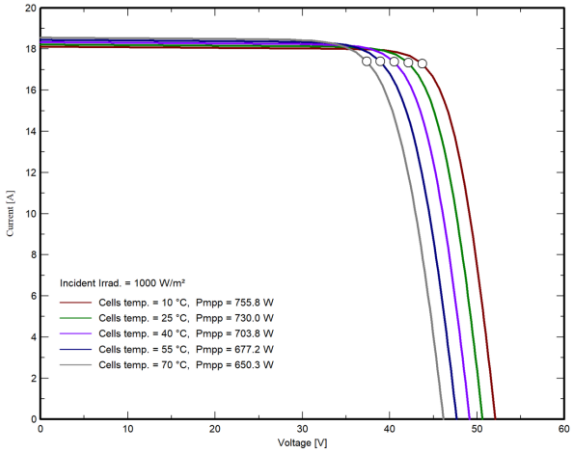
Excellent PID resistance



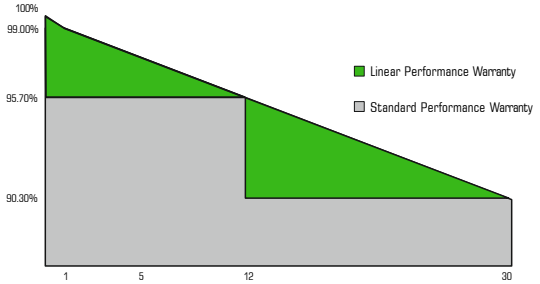
I-V VARIATION WITH IRRADIANCE



I-V VARIATION WITH TEMPERATURE



The Graphs are for reference purpose only. Please consult Waaree technical team for further clarifications.



TIER 1 Bloomberg NEW ENERGY FINANCE | IEC | मानकः पथप्रदर्शकः

ISO 9001:2015 I ISO 14001:2015 I ISO 45001:2018
Independent assessment of factories by BLACK & VEATCH

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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	
BiH-11-700	700	534.00	41.79	39.91	16.75	13.48	17.80	14.35	49.83	46.69	22.53
BiH-11-705	705	538.00	41.91	40.03	16.82	13.54	17.87	14.40	49.96	46.81	22.70
BiH-11-710	710	542.00	42.04	40.15	16.89	13.60	17.94	14.46	50.09	46.94	22.86
BiH-11-715	715	546.00	42.16	40.26	16.96	13.65	18.01	14.52	50.23	47.06	23.02
BiH-11-720	720	549.00	42.28	40.38	17.03	13.71	18.08	14.57	50.36	47.19	23.18
BiH-11-725	725	553.00	42.40	40.49	17.10	13.77	18.15	14.63	50.49	47.31	23.34
BiH-11-730	730	557.00	42.52	40.60	17.17	13.82	18.22	14.69	50.62	47.43	23.50

*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

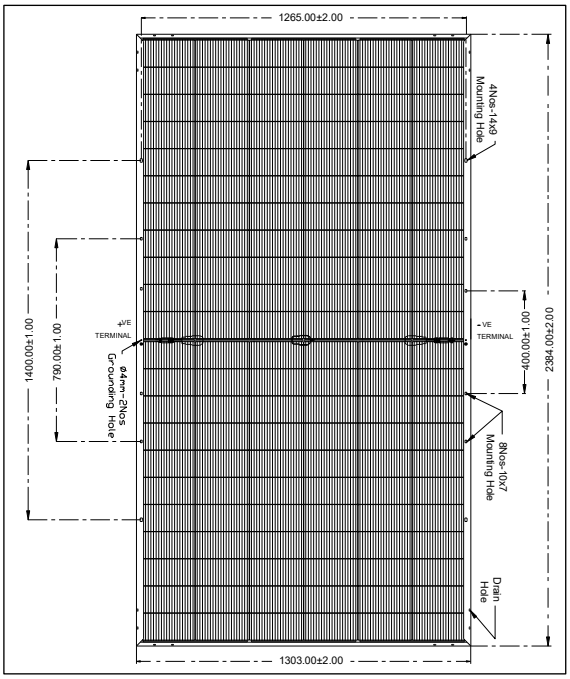
Series Fuse Rating	35 A

BI-FACIAL OUTPUT - BACKSIDE POWER GAIN*

		BiH-11-700	BiH-11-705	BiH-11-710	BiH-11-715	BiH-11-720	BiH-11-725	BiH-11-730
15%	Power Output (W)	805	811	817	822	828	834	840
	Module Efficiency (%)	25.91	26.11	26.29	26.47	26.66	26.84	27.03
20%	Power Output (W)	840	846	852	858	864	870	876
	Module Efficiency (%)	27.04	27.24	27.43	27.62	27.82	28.01	28.20
25%	Power Output (W)	875	881	888	894	900	906	913
	Module Efficiency (%)	28.16	28.38	28.58	28.78	28.98	29.18	29.38
30%	Power Output (W)	910	917	923	930	936	943	949
	Module Efficiency (%)	29.29	29.51	29.72	29.93	30.13	30.34	30.55

*The bifacial gains are dependant on the power plant design and location

DESIGN SPECIFICATIONS



THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.04
Temperature coefficient of Voltage (Voc), ß (%/°C)	-0.22
Temperature coefficient of Power (Pm), γ (%/°C)	-0.24
NOCT (°C)	44 ± 2
Operating temperature range (°C)	-40 to 85
Bifaciality	85 ±10

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	2384 mm (L) x 1303 mm (W) x 35 mm (T)
Weight	39 kgs
Solar Cells per Module (Units) / Arrangement	132 cells / (11x6 || 11x6)
Solar Cell Type & Size	G12 Bifacial HJT cells
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, 3 Diodes
Cable & Connector (Protection degree / Type)	IP68 rated / MC4 compatible
Cable cross - section & Length	4 mm^2 & 500mm
Frame	Anodized Aluminium Alloy

Waaree Energies Ltd. is a leading Renewable Energy Company which has India's largest Solar PV Modules and Cells manufacturing capacity of 15+ GW and 5.4 GW respectively. In addition, it is committed to provide top notch EPC services, Inverter Modules, Transformers, Smart Energy Meters, Green Hydrogen, Energy Storage Solutions and also is an Independent Power Producer. Waaree is committed towards Accelerating the Global Energy Transition.

12 Years Product Warranty • 30 Years Power Output Warranty

- 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 & Waaree warranty statement for terms & conditions.
- Waaree Reserves the right to change the specifications without prior notice.