

AHNAY SERIES

Bi-62-470 to Bi-62-500

Framed dual glass bifacial module

WAAREE[®]

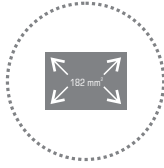
One with the Sun



Highest reliability & enhanced crack tolerant MBB module



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



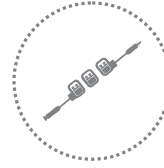
Highly efficient Mono PERC M10 cells



Best in class thermal coefficients



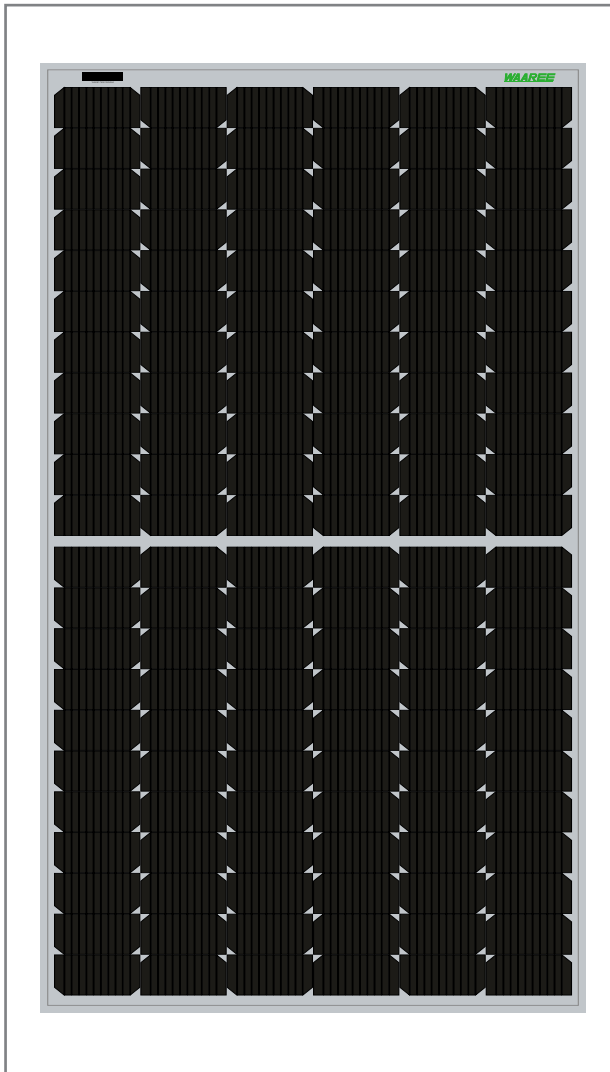
Highest commercial gains, lower LCOE



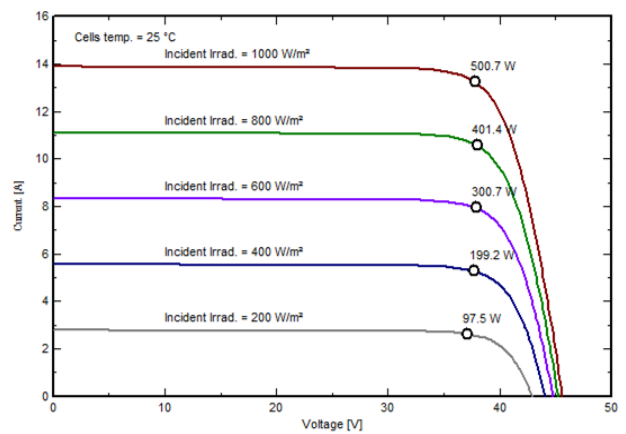
Split junction box improve heat dissipation



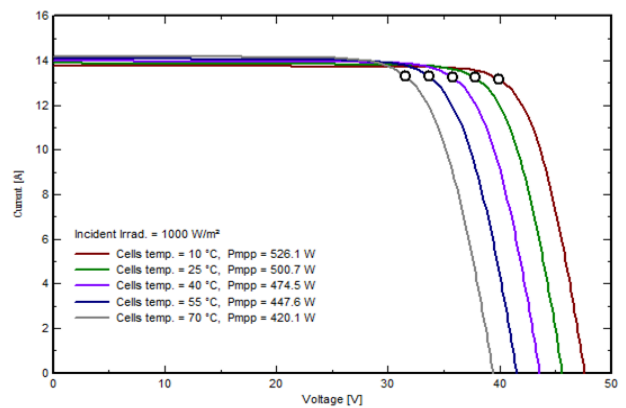
Increase shade tolerance



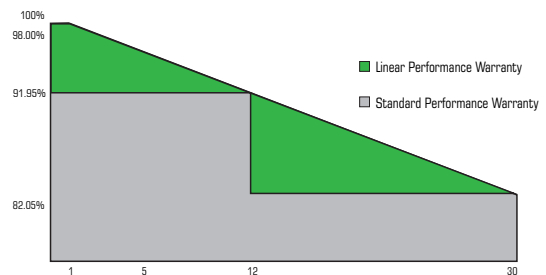
I-V VARIATION WITH IRRADIANCE



I-V VARIATION WITH TEMPERATURE



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



ISO 9001:2015 | ISO 14001:2015 | 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	
Bi-62-470	470	354.8	37.53	34.60	12.54	10.26	13.42	10.83	44.69	41.90	19.86
Bi-62-475	475	357.9	37.67	34.70	12.62	10.32	13.50	10.90	44.84	42.10	20.07
Bi-62-480	480	362.0	37.82	34.90	12.71	10.38	13.58	10.96	44.99	42.20	20.28
Bi-62-485	485	365.8	37.97	35.00	12.79	10.44	13.66	11.03	45.15	42.40	20.49
Bi-62-490	490	369.3	38.12	35.20	12.87	10.50	13.73	11.08	45.30	42.50	20.70
Bi-62-495	495	373.0	38.27	35.30	12.95	10.56	13.81	11.15	45.45	42.60	20.91
Bi-62-500	500	376.5	38.38	35.40	13.04	10.62	13.89	11.21	45.60	42.80	21.13

*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
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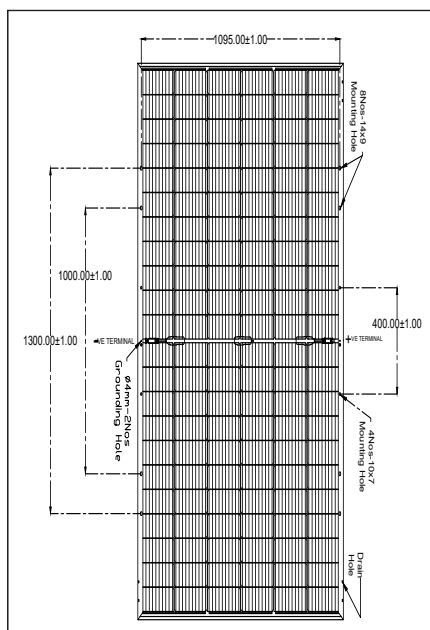
Series Fuse Rating	25 A
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BI-FACIAL OUTPUT - BACKSIDE POWER GAIN*

		Bi-62-470	Bi-62-475	Bi-62-480	Bi-62-485	Bi-62-490	Bi-62-495	Bi-62-500
15%	Power Output (W)	541	546	552	558	564	569	575
	Module Efficiency (%)	22.84%	23.08%	23.32%	23.57%	23.81%	24.05%	24.29%
20%	Power Output (W)	564	570	576	582	588	594	600
	Module Efficiency (%)	23.83%	24.08%	24.34%	24.59%	24.84%	25.10%	25.35%
25%	Power Output (W)	588	594	600	606	613	619	625
	Module Efficiency (%)	24.82%	25.09%	25.35%	25.61%	25.88%	26.14%	26.41%
30%	Power Output (W)	611	618	624	631	637	644	650
	Module Efficiency (%)	25.82%	26.09%	26.36%	26.64%	26.91%	27.19%	27.46%

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

DESIGN SPECIFICATIONS



THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.05
Temperature coefficient of Voltage (Voc), β (%/°C)	-0.25
Temperature coefficient of Power (Pm), γ (%/°C)	-0.34
NOCT (°C)	43 ± 2
Operating temperature range (°C)	-40 to 85
Bifaciality Factor (%)	70 ± 5

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	2089 mm (L) x 1133 mm (W) x 35 mm (T)
Weight	29.5 kgs
Solar Cells per Module (Units) / Arrangement	132 cells / (11x6 11x6)
Solar Cell Type & Size	Mono PERC Bifacial, 91 x 182 mm
Front / Back Glass (Material / Thickness)	2.0 mm Low Iron 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 & 500mm

Waaree Energies Ltd. is amongst the top Solar Energy Companies and has the country's largest Solar PV Module manufacturing capacity of 12 GW. In addition, it is committed to provide top notch EPC services, project development, rooftop solutions, solar water pumps and also in an Independent Power Producer. Waaree has its presence in over 350+ locations nationally and 68 countries globally.

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.z

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