

AHNAY SERIES

Bi-11-380 to Bi-11-395
Dual Glass Bifacial module

WAAREE[®]

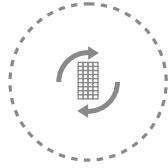
One with the Sun



Superior module efficiency as per international benchmarks



Modules binned by current to improve system performance



Glass with anti reflective coating improves light transmission



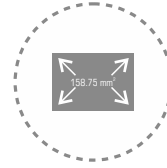
Ammonia, blowing sand and hail resistant



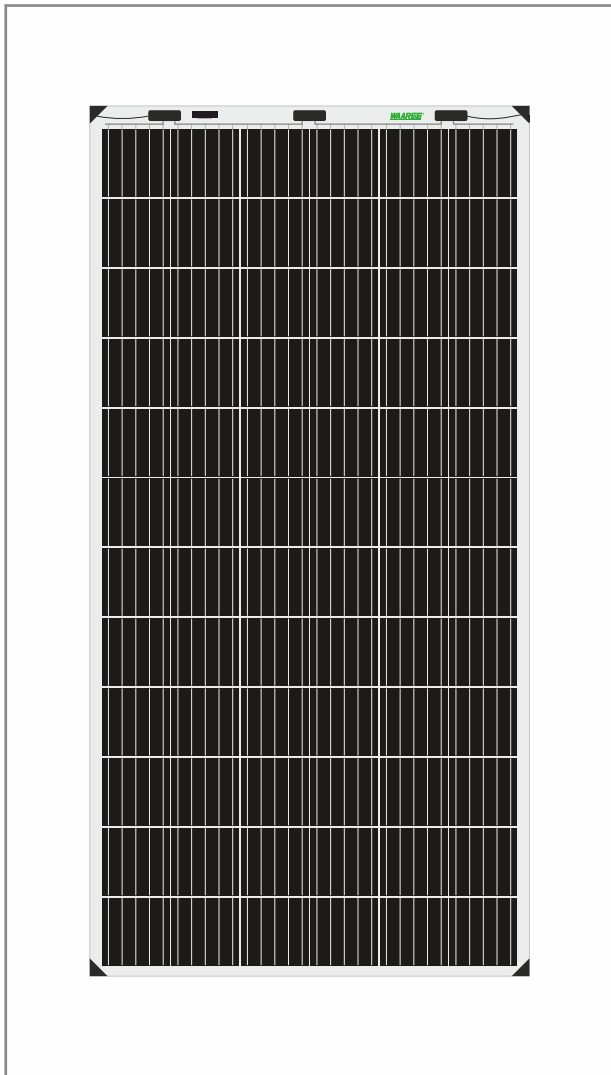
PID resistant with long term reliability



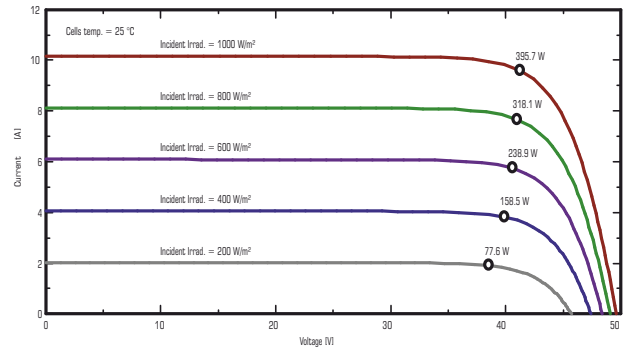
Sustain heavy wind & snow loads (2400 pa & 5400 pa)



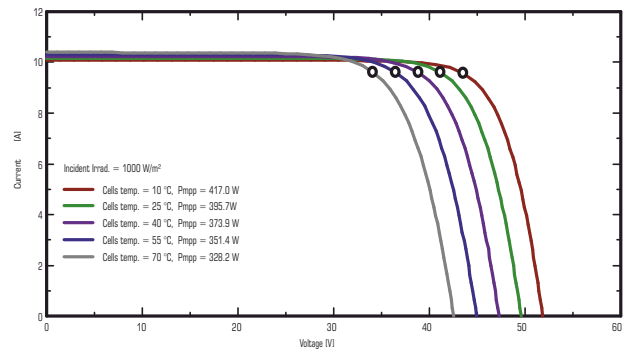
Full square Mono PERC cells



I-V VARIATION WITH IRRADIANCE



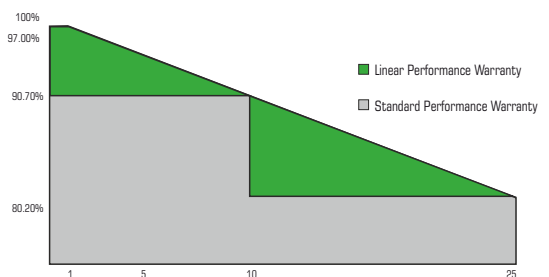
I-V VARIATION WITH TEMPERATURE



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

INTERNATIONAL & NATIONAL CERTIFICATIONS

IEC 61215 | IEC 61730 | UL61730
IEC TS 62804-1



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-11-380	380	280.9	40.11	36.79	9.50	7.63	9.97	8.06	48.67	44.91	19.02
Bi-11-385	385	284.6	40.36	37.04	9.56	7.69	10.03	8.11	48.98	45.11	19.27
Bi-11-390	390	288.3	40.61	37.29	9.62	7.73	10.09	8.16	49.29	45.48	19.52
Bi-11-395	395	292.1	40.88	37.52	9.69	7.78	10.16	8.22	49.62	45.78	19.77

*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-11-380	Bi-11-385	Bi-11-390	Bi-11-395
15%	Power Output (W)	437	443	449	454
	Module Efficiency (%)	21.87	22.16	22.45	22.74
20%	Power Output (W)	456	462	468	474
	Module Efficiency (%)	22.82	23.12	23.42	23.72
25%	Power Output (W)	475	481	488	494
	Module Efficiency (%)	23.77	24.09	24.40	24.71
30%	Power Output (W)	494	501	507	514
	Module Efficiency (%)	24.72	25.05	25.38	25.70

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (LxWxT)	2002 mm (L) x 998 mm (W) x 6.5 mm (T)
Weight	28 kgs
Solar Cells per Module (Units)/Arrangement	72 cells / (12x6)
Solar Cell	Mono PERC Bifacial
Front / Back Glass (Material / Thickness)	2.5mm Low Iron and 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 & 500mm

THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.05
Temperature coefficient of Voltage (Voc), β (%/°C)	-0.27
Temperature coefficient of Power (Pm), γ (%/°C)	-0.37
NOCT (°C)	46 ± 2
Operating temperature range (°C)	-40 to 85

Waaree Energies Ltd. is amongst the top Solar Energy Companies and has the country's largest Solar PV Module manufacturing capacity of 2 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 325+ locations nationally and 68 countries globally.

10 Years Product Warranty • 25 Years Power Output Warranty

*If you need specific product certificates, and if module installations are to deviate from our guidance specified in our installation manual, please contact your local Waaree sales and technical representatives.

- 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.