

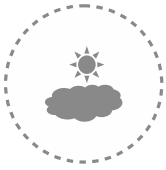
# AHNAY SERIES

Bi-25-380 to Bi-25-395

Framed Dual Glass Bifacial module

**WAAREE**<sup>®</sup>

One with the Sun



Better performance under all climatic conditions



Enhanced power output due to revolutionary design



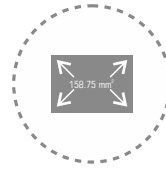
Split junction box



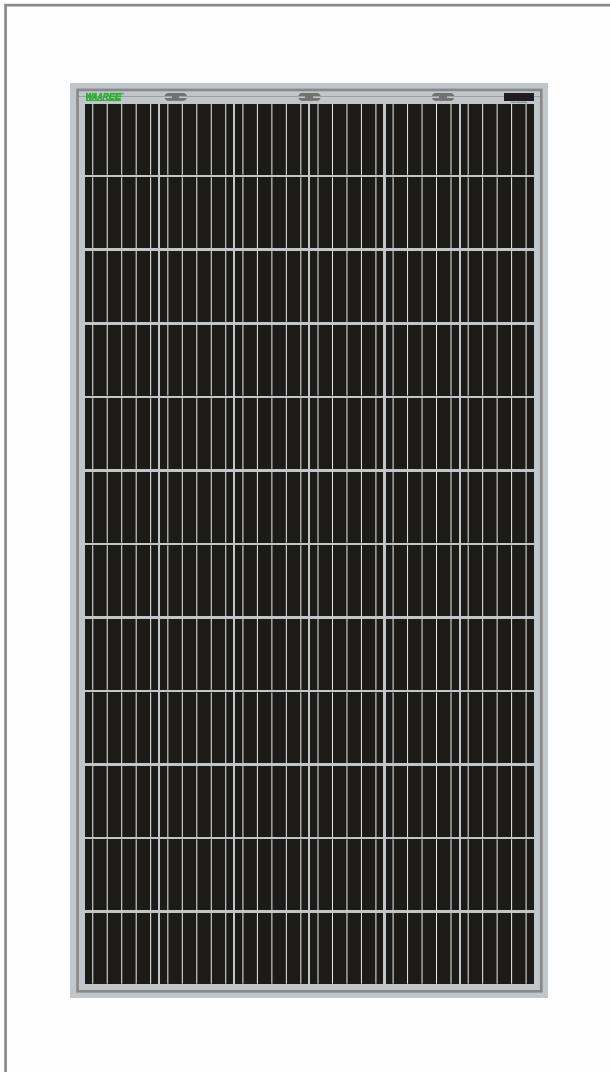
PID resistant with long term reliability



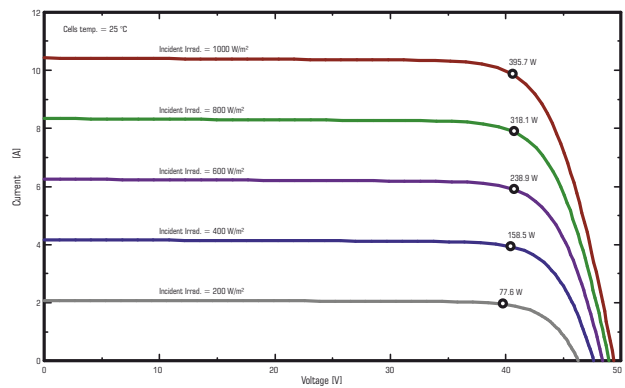
Sustain heavy wind & snow loads (2400 pa & 5400 pa)



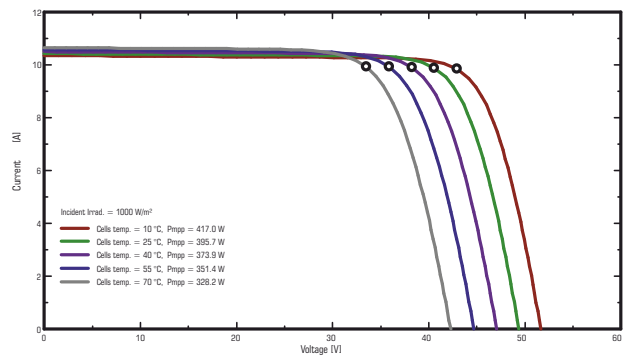
Full square Mono PERC cells



## I-V VARIATION WITH IRRADIANCE



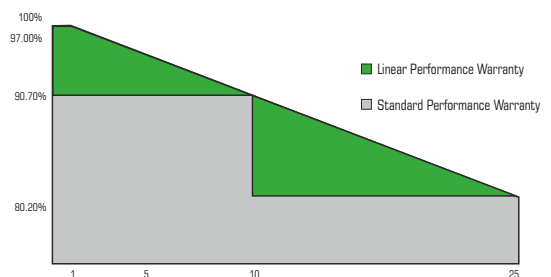
## I-V VARIATION WITH TEMPERATURE



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

## INTERNATIONAL & NATIONAL CERTIFICATIONS ^

IEC 61215 | IEC 61730 | UL61730



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-25-380	380	280.9	40.11	36.79	9.50	7.63	9.97	8.06	48.67	44.91	18.56
Bi-25-385	385	284.6	40.36	37.04	9.56	7.69	10.03	8.11	48.98	45.11	18.81
Bi-25-390	390	288.3	40.61	37.29	9.62	7.73	10.09	8.16	49.29	45.48	19.05
Bi-25-395	395	292.1	40.88	37.52	9.69	7.78	10.16	8.22	49.62	45.78	19.29

\*Standard Test Conditions (STC) - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

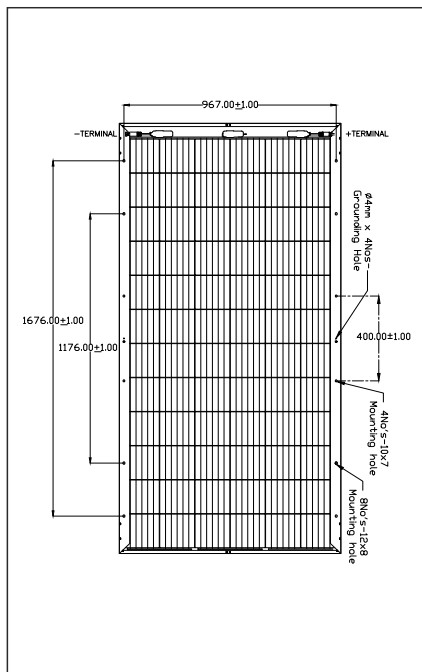
System Voltage	1500 V
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Series Fuse Rating	25 A
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## BI-FACIAL OUTPUT - BACKSIDE POWER GAIN

		Bi-25-380	Bi-25-385	Bi-25-390	Bi-25-395
15%	Power Output (W)	437	443	449	454
	Module Efficiency (%)	21.35%	21.63%	21.91%	22.19%
20%	Power Output (W)	456	462	468	474
	Module Efficiency (%)	22.27%	22.57%	22.86%	23.15%
25%	Power Output (W)	475	481	488	494
	Module Efficiency (%)	23.20%	23.51%	23.81%	24.12%
30%	Power Output (W)	494	501	507	514
	Module Efficiency (%)	24.13%	24.45%	24.76%	25.08%

## DESIGN SPECIFICATIONS



## THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), $\alpha$ (%/°C)	0.05
Temperature coefficient of Voltage (Voc), $\beta$ (%/°C)	-0.27
Temperature coefficient of Power (Pm), $\gamma$ (%/°C)	-0.37
NOCT (°C)	45 ± 2
Operating temperature range (°C)	-40 to 85

## MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	2029 mm (L) x 1009 mm (W) x 40 mm (T)
Weight	28 kgs
Solar Cells per Module (Units) / Arrangement	72 cells / (12x6)
Solar Cell	Mono PERC Bifacial
Front / Back Glass (Material / Thickness)	2.0 mm 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 <sup>2</sup> & 500mm
Frame	Anodized Aluminium Alloy

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

( ^ ) FEW MODELS MAY BE UNDER CERTIFICATION

\*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.

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