

# AHNAY SERIES

Bi-12-305 to Bi-12-325  
Dual Glass Bifacial module

**WAAREE**<sup>®</sup>

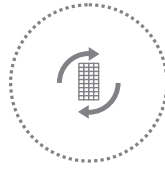
One with the Sun  
MADE IN INDIA



Superior module efficiency as per international benchmarks



Modules binned by current to improve system performance



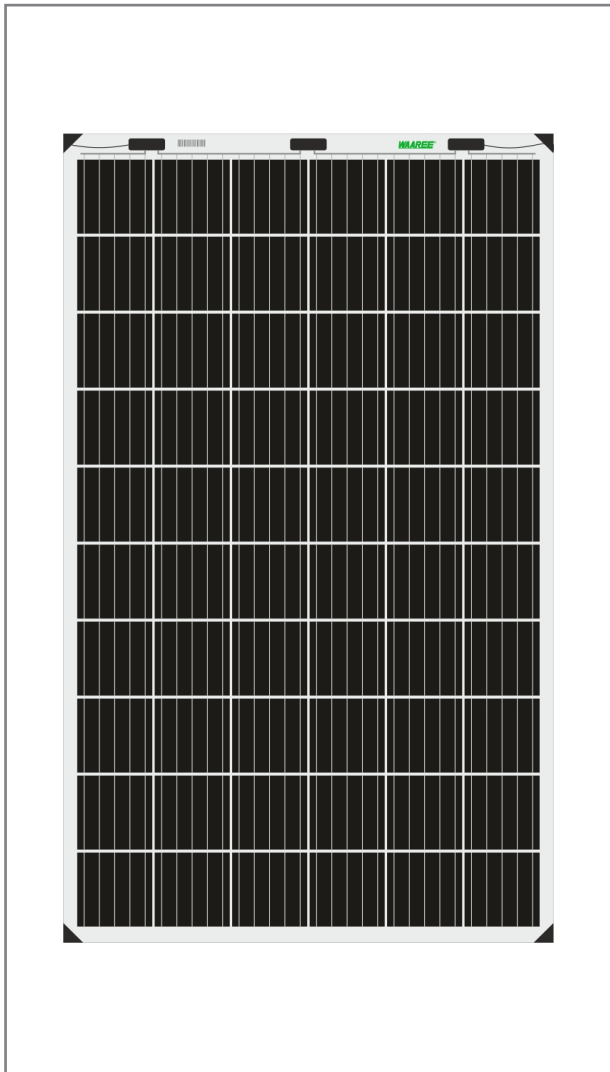
Glass with anti reflective coating improves light transmission



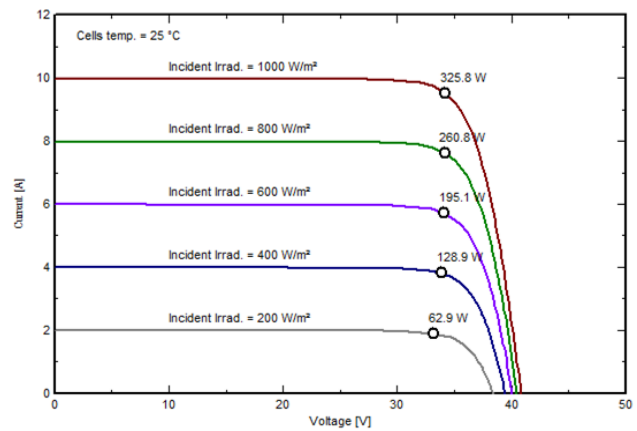
Sustain heavy wind & snow loads



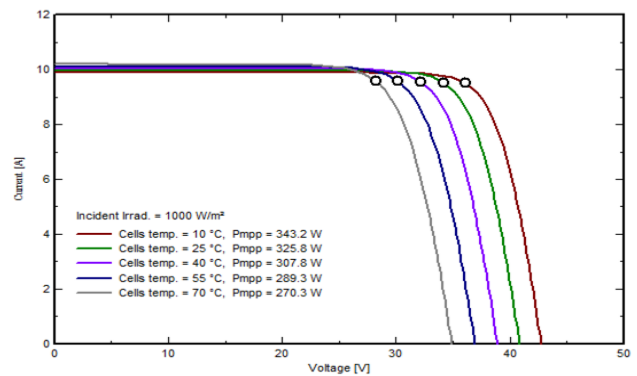
Full square Mono PERC cells



## I-V VARIATION WITH IRRADIANCE



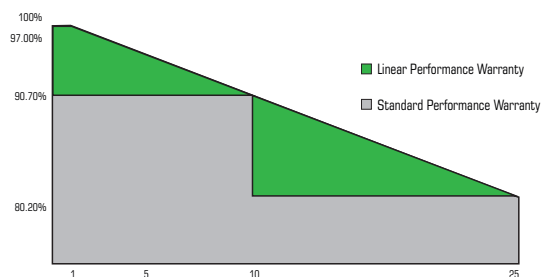
## I-V VARIATION WITH TEMPERATURE



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 certified company

[www.waaree.com](http://www.waaree.com)

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## ELECTRICAL CHARACTERISTICS

Models	P <sub>max</sub> (W) ± 5% Tol		V <sub>mp</sub> (V) ± 2% Tol		I <sub>mp</sub> (A) ± 2% Tol		I <sub>sc</sub> (A) ± 5% Tol		V <sub>oc</sub> (V) ± 5% Tol		Module Eff. (%)
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	
Bi-12-305	305	330	32.93	33.11	9.28	9.97	9.72	10.65	39.77	39.99	18.18
Bi-12-310	310	335	33.19	33.37	9.35	10.06	9.79	10.72	40.03	40.25	18.47
Bi-12-315	315	340	33.45	33.63	9.43	10.12	9.85	10.79	40.29	40.52	18.77
Bi-12-320	320	345	33.70	33.89	9.51	10.19	9.92	10.86	40.56	40.78	19.07
Bi-12-325	325	350	33.95	34.14	9.58	10.26	9.98	10.93	40.82	41.04	19.37

\*Standard Test Conditions (STC) - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Bifacial Standard Test Conditions (BSTC) - (1000 + 135 \* ) W/m<sup>2</sup> irradiance, Air Mass 1.5, Cell temperature 25°C. Sorting tolerance -5 Wp/+5 Wp.

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

		Bi-12-305	Bi-12-310	Bi-12-315	Bi-12-320	Bi-12-325
15%	Power Output (W)	351	357	362	368	374
	Module Efficiency (%)	20.90%	21.25%	21.59%	21.93%	22.27%
20%	Power Output (W)	366	372	378	384	390
	Module Efficiency (%)	21.81%	22.17%	22.53%	22.88%	23.24%
25%	Power Output (W)	381	388	394	400	406
	Module Efficiency (%)	22.72%	23.09%	23.47%	23.84%	24.21%
30%	Power Output (W)	397	403	410	416	423
	Module Efficiency (%)	23.63%	24.02%	24.40%	24.79%	25.18%

## MECHANICAL CHARACTERISTICS

Length x Width x Thickness (LxWxT)	1680.5 mm (L) x 998.5 mm (W) x 6.5 mm (T)
Weight	23.5 kgs
Solar Cells per Module (Units)/Arrangement	60 cells / (10x6)
Solar Cell Type & Size	Mono PERC Bifacial, 158.75 x 158.75 mm
Front / Back Glass (Material / Thickness)	2.5mm Low Iron and Tempered glass
Junction Box (Protection degree/Material)	IP68 / Weatherproof PPO
Connector	SUNTER/ PV-ZH202B
Cable cross - section	4 mm <sup>2</sup>
Fire resistance	Class C

This module is suitable for mounting with clamps only; Not suitable for mounting with screws.

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.

## THERMAL CHARACTERISTICS

Temperature coefficient of Current (I <sub>sc</sub> ), α (%/°C)	0.05
Temperature coefficient of Voltage (V <sub>oc</sub> ), β (%/°C)	-0.29
Temperature coefficient of Power (P <sub>m</sub> ), γ (%/°C)	-0.40
NOCT (°C)	46 ± 2
Operating temperature range (°C)	-40 to 85