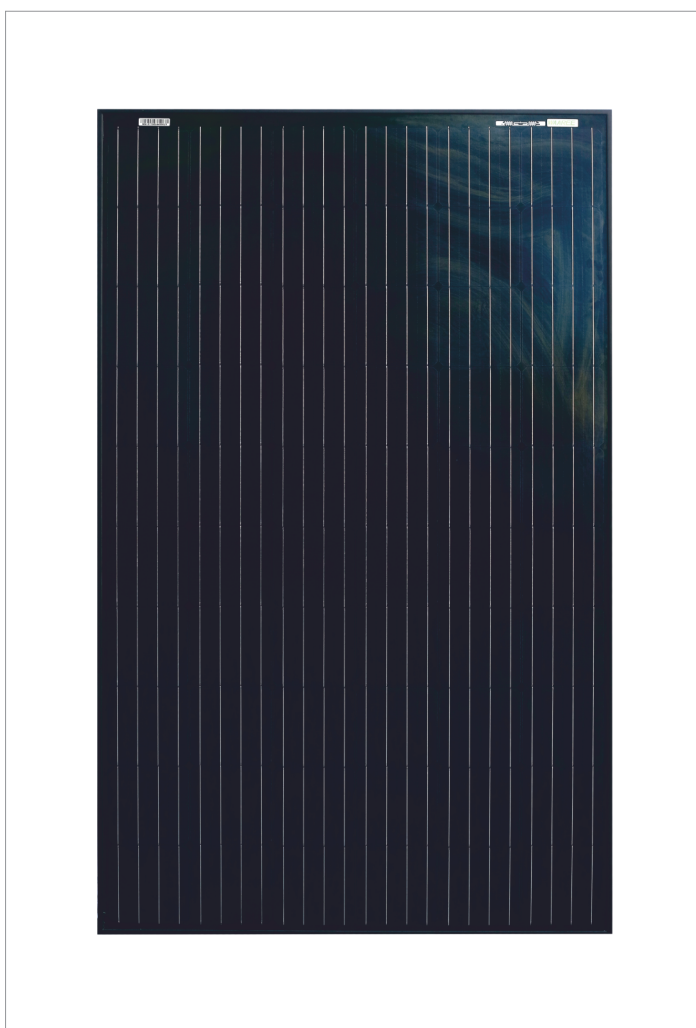
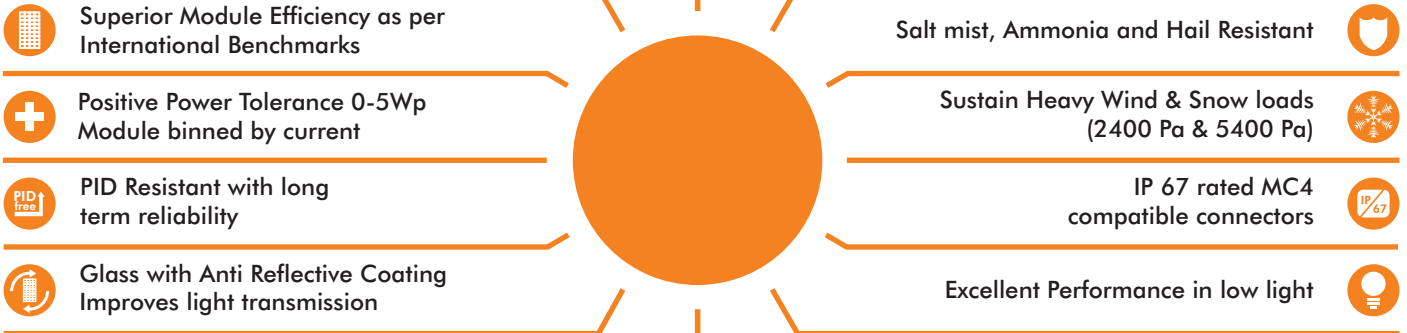


# BLACK SERIES MONO

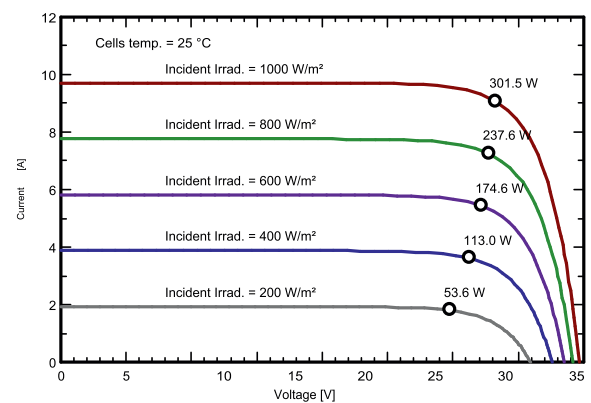
WSMB-300 (60 Cells)

**WAAREE**<sup>®</sup>

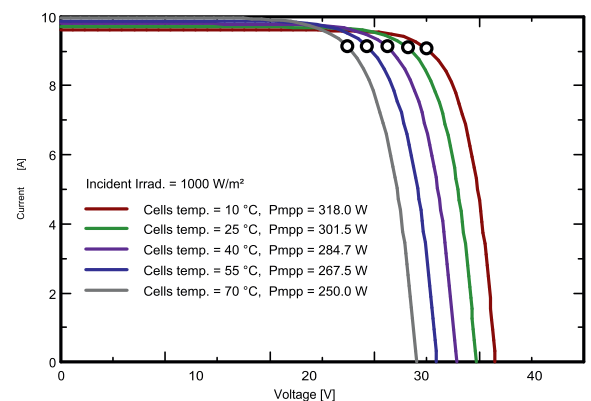
One with the Sun



## I-V Curve Variation With Irradiance



## I-V Curve Variation With Temperature



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

### INTERNATIONAL & NATIONAL CERTIFICATIONS

IS 14286 | IEC 61215 | IEC 61730 | IEC 61701 | IEC 62804  
IEC 62716 | IEC 60068-2-68 | UL1703  
ROHS Compliance | REACH Compliance



R-72002038



R-72002020



ISO 9001:2015 | ISO 14001:2015 | OHSAS 18001:2007 / ISO 45001:2018  
Independent assessment of factories by BLACK & VEATCH

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# BLACK SERIES MONO

WSMB-300 (60 Cells)

**WAAREE**<sup>®</sup>

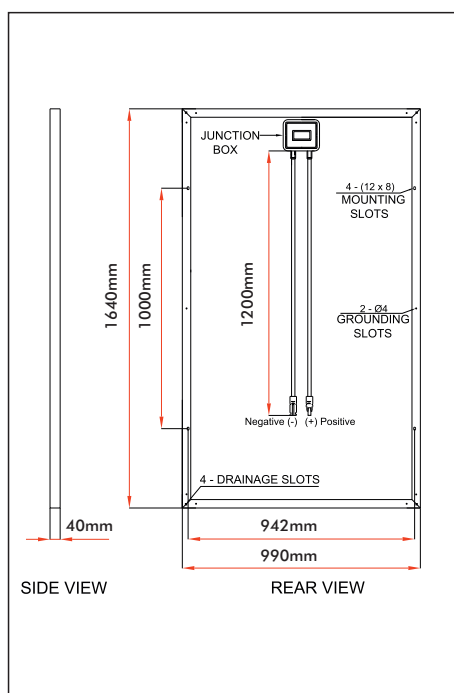
One with the Sun

## Electrical Characteristics

MODEL	Pmax (W)	Vmp (V)	Imp (A)	Isc (A)	Voc (V)	Module Eff. (%)
WSMB-300	300	32.70	9.20	9.70	39.70	18.48

\* Mentioned electrical data are reference values which was derived at STC condition - Temp: 25°, Irradiance: 1000w/m2 and Am: 1.5Am with cleaned modules

## Design Specifications



## Mechanical Characteristics

Length x Width x Thickness (L x W x T) - mm	1640 x 990 x 40
Mounting Holes Pitch (Y) - mm	1000.00
Mounting Holes Pitch (X) - mm	942
Weight (kg)	18.5
Solar Cells per Module (Units) / Arrangement	60 / (10 x 6)
Solar Cell Type	Mono PERC
Front Cover (Material / Thickness)	Tempered & Low Iron Glass, 3.2/4.0mm
Encapsulate	Ethylene Vinyl Acetate
Frame Material	Anodized Aluminum Alloy
Junction Box (Protection degree / Material)	Weatherproof PPO / IP67 rated enclosure with bypass diodes
Connector	MC4 compatible with IP67 rated
Cable	4 mm <sup>2</sup> cross section, 1200 mm long
Fire safety class	C
Application class	A
Safety class	II

## Temperature Coefficients And Operating Conditions

Temperature coefficient of Current $\alpha$ (%/°C)	0.0039
Temperature coefficient of Voltage $\beta$ (%/°C)	-0.2627
Temperature coefficient of Power $\gamma$ (%/°C)	-0.3739
NOCT (°C)	46 ± 2
Operating Temperature Range (°C)	-40 to 85
Maximum System Voltage (IEC& UL)	1500VDC

Waaree Energies Ltd. is the flagship company of Waaree Group, and has the country's largest Solar PV Module manufacturing capacity of 1.5 GW. In addition, it is one of leading players in India in EPC Services, Project Development, Rooftop Solutions, Energy Storage, Inverters, Solar Thermal, Solar Water Pumps and as an Independent Power Producer. Waaree has its presence in over 280+ locations nationally and 68 countries globally.

\*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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