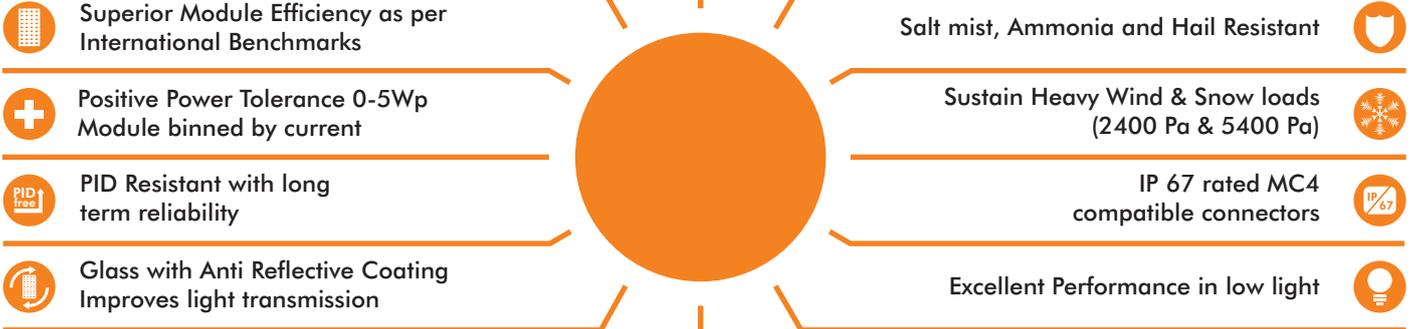


AC MODULE

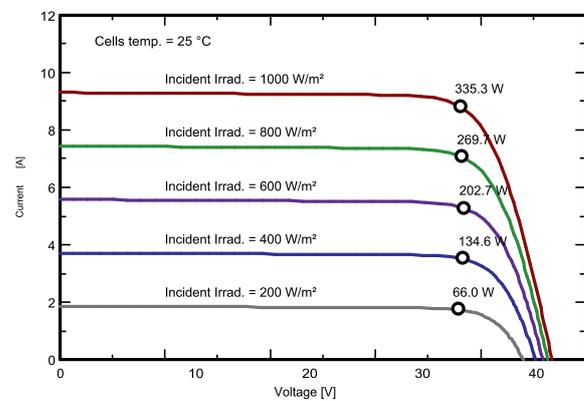
WSM-335 AC (72 CELLS)

WAAREE®

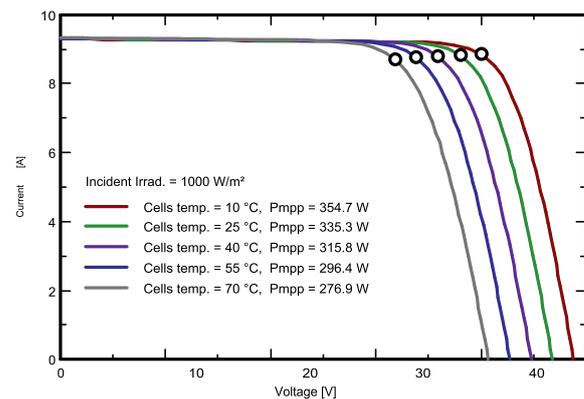
One with the Sun



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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AC MODULE

WSM-335 AC (72 CELLS)

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One with the Sun

Thermal Characteristics

Temp. coefficient of Current (Isc), α (%/°C)	0.0039
Temp. coefficient of Voltage (Voc), β (%/°C)	-0.2627
Temp. coefficient of Power (Pm), γ (%/°C)	-0.3739
NOCT (°C)	46 ± 2
Operating Temperature Range (°C)	-40 to 85

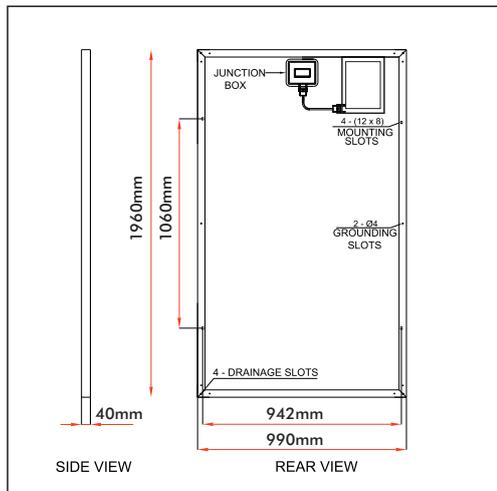
Electrical Characteristics

Nominal Maximum Power (Pm) in Watts	335
Power tolerance	0/+5W
Open Circuit Voltage (Voc) in Volts	45.80
Short Circuit Current (Isc) in Amps	9.50
Voltage at Max Power (Vmp) in Volts	36.70
Current at Max Power (Imp) in Amps	9.13
Maximum System Voltage in Volts	1000/1500
Module Efficiency %	17.27
Maximum Series Fuse Rating (A)	15

Mechanical Characteristics

Length x Width x Thickness (L x W x T) - mm	1960 x 990 x 40
Mounting Holes Pitch (Y) – mm	1060
Mounting Holes Pitch (X) – mm	942
Weight (kg)	22.5
Solar Cells per Module (Units) / Arrangement	72 / (12*6)
Solar Cell Type	Mono crystalline Silicon
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 or IP67 rated
Cable	4 mm ² cross section, 1200 mm long
Fire safety class	C
Safety application class	A
Safety class	II

Design Specifications



Output Data (AC)

Peak output power	258 W
Maximum continuous output power	250 W
Rated output current	1.09 A
Nominal voltage	230 V
Nominal frequency	50.0 Hz
Solar Cell Type	Mono crystalline Silicon
Power factor	>0.95
Maximum units per 20 A branch circuit	14 (Ph + N), 42 (3Ph + N)
Maximum units per cable section	14 (Ph + N), 24 (3Ph + N)
Maximum output fault current	850 mA rms for 6 cycles
Current (inrush)	0 A
AC backfeed current to module	0 mA

Warranty

Modules

- 10 years Limited Product Warranty
- 25 years Limited Power output Warranty:
 - o Minimum 90% at the end of 10 years
 - o Minimum 80% at the end of 25 years

Inverter

- 10 years Limited Product Warranty

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, solar water pumps, and as an Independent Power Producer. Waaree has its presence in over 280+ locations nationally and 68 countries globally.

Features

Communication	Power line communication
Monitoring	Enlighten Manager and My Enlighten monitoring options
Transformer design	High frequency transformers, galvanically isolated
Automac disconnect	Automac disconnect according to OVE/ÖNORME 8001-4-712
Compliance	AS4777,C10/11,CEI_0 -21,EN50438,EN62109-1,EN62109-2, VDE AR-N 4105 ERDF-NOI-RES_13E_V5,G59/2,G83/2,VDE- 0126-1-1 + A1

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

*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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