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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Waaree Energies Ltd  
Aditya Series WSM-320-380  
WSM-340**

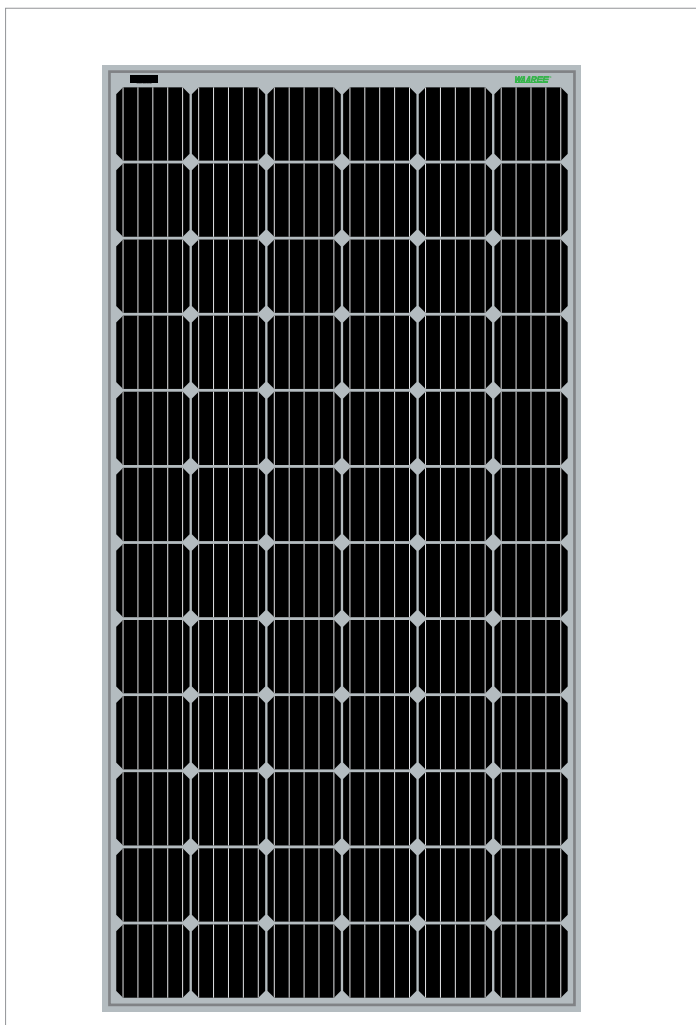
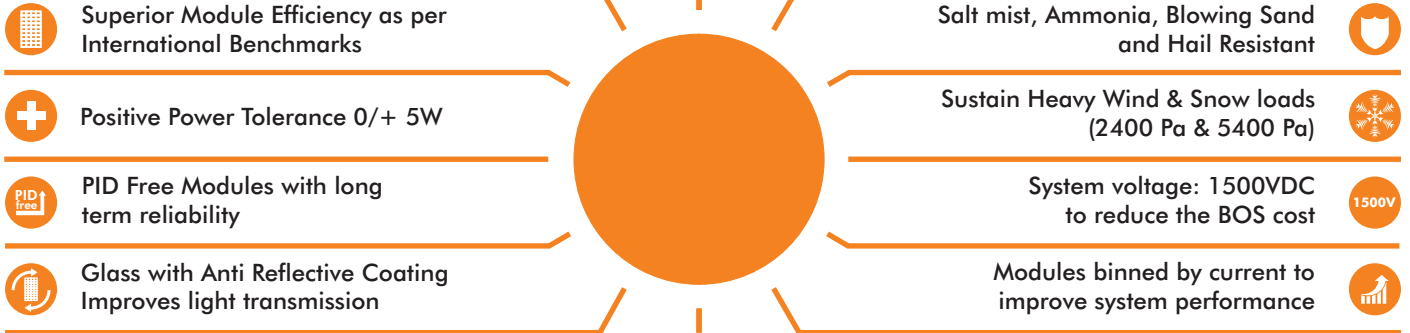
Also available on the web at  
[EnergyPal.com/waaree-energies-ltd-solar-panels/wsm-340](http://EnergyPal.com/waaree-energies-ltd-solar-panels/wsm-340)

# ADITYA SERIES MONO

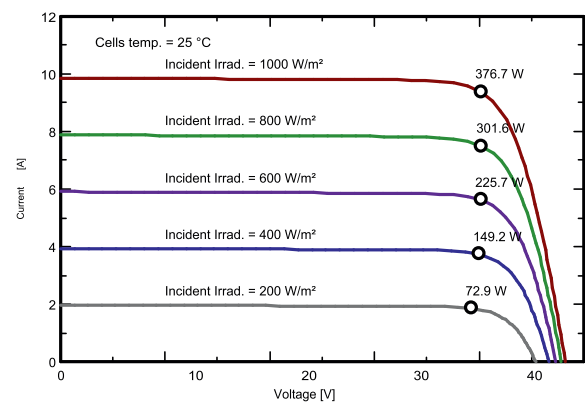
WSM-320 TO WSM-380 (72 CELLS)

# WAAREE®

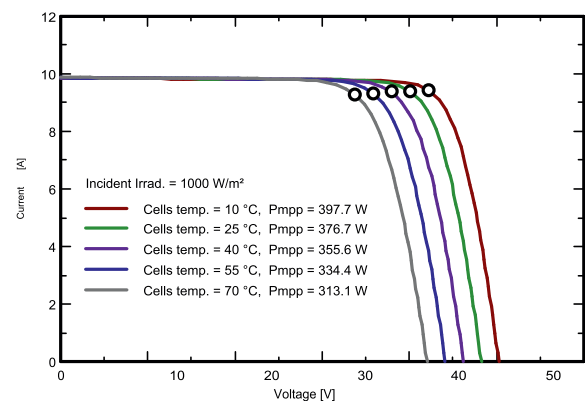
One with the Sun



## 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

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

# ADITYA SERIES MONO

WSM-320 TO WSM-380 (72 CELLS)

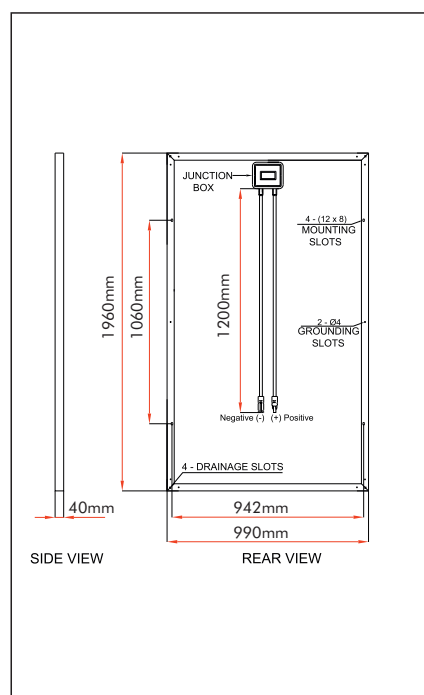
**WAAREE**<sup>®</sup>

One with the Sun

## Electrical Characteristics

MODELS	Pmax (W)	Vmp (V)	Imp (A)	Isc (A)	Voc (V)	Module Eff. (%)
WSM-320	320	37.30	8.58	9.15	46.50	16.49
WSM-325	325	37.50	8.67	9.25	46.70	16.74
WSM-330	330	37.70	8.76	9.35	46.90	17.01
WSM-335	335	37.90	8.84	9.45	47.05	17.26
WSM-340	340	38.10	8.93	9.50	47.15	17.52
WSM-345	345	38.30	9.01	9.55	47.25	17.78
WSM-350	350	38.50	9.10	9.60	47.35	18.04
WSM-355	355	38.70	9.18	9.65	47.45	18.30
WSM-360	360	38.90	9.26	9.70	47.65	18.55
WSM-365	365	39.10	9.34	9.75	47.85	18.81
WSM-370	370	39.30	9.42	9.80	48.05	19.07
WSM-375	375	39.50	9.50	9.85	48.25	19.33
WSM-380	380	39.70	9.58	9.90	48.45	19.58

## Design Specifications



## 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 PERC
Front Cover (Material / Thickness)	Tempered & Low Iron Glass, 3.2/4mm
Encapsulate	Ethylene Vinyl Acetate
Frame Material	Anodized Aluminum Alloy
Junction Box (Protection degree / Material)	IP67 rated enclosure with 3 bypass diodes Rated voltage : 1500VDC
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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