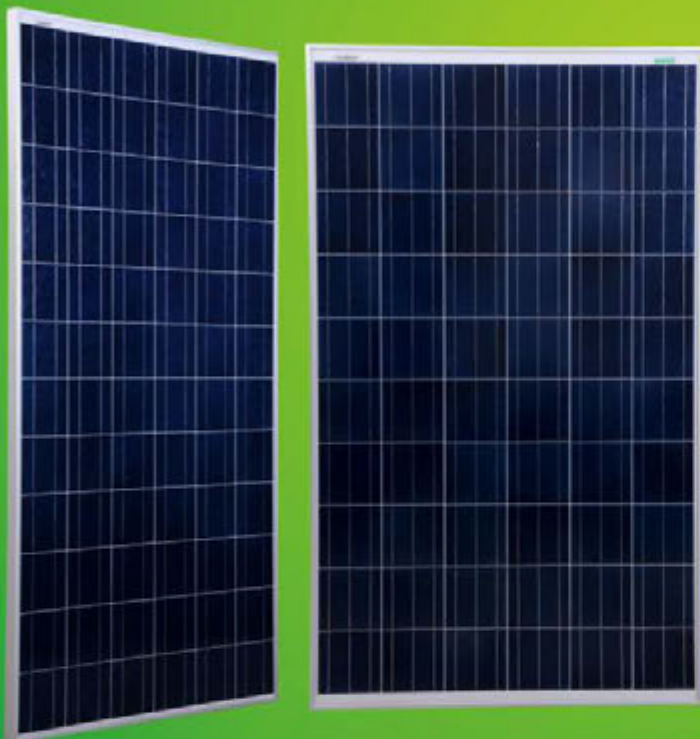


## ADITYA SERIES POLY

WS-240 to WS- 270 (60 Cells - 6")



## FEATURES

-  Superior Module Efficiency as per International Benchmarks
-  Positive Power Tolerance 0 /+ 5W
-  PID Resistant Modules
-  Glass with Anti Reflective Coating  
Improves light transmission
-  Salt mist, Ammonia and Hail Resistant
-  Sustain Heavy Wind & Snow loads  
(2400 Pa & 7500 Pa)
-  IP 67 rated MC4 compatible connectors
-  Excellent Performance in low light
-  Sand and Dust Storm Resistant



**500 MW**

Module  
Manufacturing Capacity

**25**

Years  
Output  
Warranty

10 years Limited Product Warranty \*\*  
25 years Limited Power Output Warranty\*\*:  
-Minimum 90% at the end of 10 years  
-Minimum 80% at the end of 25 years



Over 20 in house tests  
(DH: Damp heat test  
TC: Thermal cycling test  
HF: Humidity freeze test)



## INTERNATIONAL & NATIONAL CERTIFICATIONS



ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007  
IEC 61215 | IEC 61730-1&2 | IEC 60068-2-68 | IEC 61701 | IEC 62716

### Electrical Characteristics\*

Model	WS-240	WS-245	WS-250	WS-255	WS-260	WS-265	WS-270
Nominal Maximum Power, $P_m$ (W)*	240	245	250	255	260	265	270
Power tolerance	0 / + 5 W						
Open Circuit Voltage, $V_{oc}$ (V)*	37.00	37.10	37.20	37.30	37.40	37.50	37.60
Short Circuit Current, $I_{sc}$ (A)*	8.65	8.81	8.96	9.12	9.27	9.42	9.58
Voltage at Maximum Power, $V_{mp}$ (V)*	30.60	30.70	30.80	30.90	31.00	31.05	31.10
Current at Maximum Power, $I_{mp}$ (A)*	7.85	7.99	8.12	8.26	8.39	8.54	8.69
Maximum System Voltage (V)	1000						
Module Efficiency (%)*	14.78	15.09	15.40	15.71	16.01	16.32	16.63
Maximum Series Fuse Rating (A)	15	15	15	15	15	15	15
Limiting Reverse Current (A)	15	15	15	15	15	15	15

\*Under Standard Test Conditions (STC) of 1000 W/m<sup>2</sup> irradiance, AM 1.5 spectrum and 25°C cell temperature.

### Mechanical Characteristics

Length x Width x Thickness (L x W x T) - mm	1640 x 990 x 42
Mounting Holes Pitch (Y) - mm	1000
Mounting Holes Pitch (X) - mm	942
Weight (kg)	18.5
Solar Cells per Module (Units) / Arrangement	60 / (10*6)
Solar Cell Type	Poly crystalline Silicon
Front Cover (Material / Thickness)	Tempered & Low Iron Glass / 3.2 mm
Encapsulate	Ethylene Vinyl Acetate
Frame Material	Anodized Aluminum Alloy
Junction Box (Protection degree / Material)	IP 65 or IP 67 rated / Weatherproof PPO enclosure
Connector (Protection degree / Type)	MC4 compatible or MC4, IP67 rated
Cable	4 sq. mm cross section, 1200 mm long
Fire safety class	C
Safety application class	A
Safety class	II

### Thermal Characteristics

Temperature coefficient of Current ( $I_{sc}$ ), $\alpha$ (%/°C)	0.0681
Temperature coefficient of Voltage ( $V_{oc}$ ), $\beta$ (%/°C)	-0.2941
Temperature coefficient of Power ( $P_m$ ), $\gamma$ (%/°C)	-0.3845
NOCT (°C)	46 ± 2
Operating temperature range (°C)	-40 to 85

### Packaging Configuration

No. of modules per 40' HC container	742 pcs
No. of modules per 20' container	312 pcs

#### About WAAREE

WAAREE is one of India's leading multi-technology companies, headquartered at Mumbai. Founded in 1989, WAAREE successfully developed cutting edge technologies to become one of the most preferred brands in the field of instrumentation, petroleum/gas and energies. The company has transformed itself from a single business into a multi-technology organisation, diversifying into exciting areas of Solar Energy, Industrial Valves, Petroleum Equipments and Process control instrumentation. WAAREE has a presence in over 68 countries with primary location in Milan, Dubai, Tokyo, San Francisco, Sydney and soon starting at Jakarta. It has more than 105 global channel partners. In India it has 26 sales offices. WAAREE has a huge list of satisfied customers over the years. Waaree is committed to supply best quality products & technology to its customers. WAAREE's products are manufactured at its state-of-the-art manufacturing facilities and is committed to excel in providing the society with world class quality products.

#### Contact: WAAREE ENERGIES LTD.

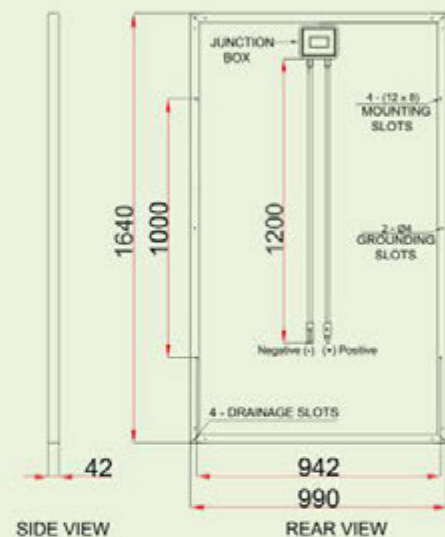
602, Western Edge I, Opp Western Express Highway, Borivali (east), Mumbai- 400 066, Maharashtra, India  
Tel: +91 22 66 44 44 44 Fax: +91 22 66 44 44 00 Email: waaree@waaree.com

#### Sold in India by:

Loop Solar | Call: +91-9971136369 | Email: info@loopsolar.com

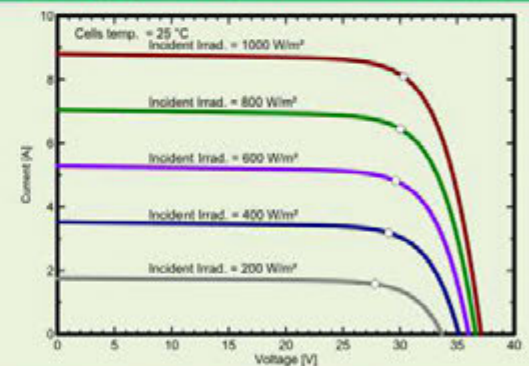
Web: www.loopsolar.com

### Design Specifications

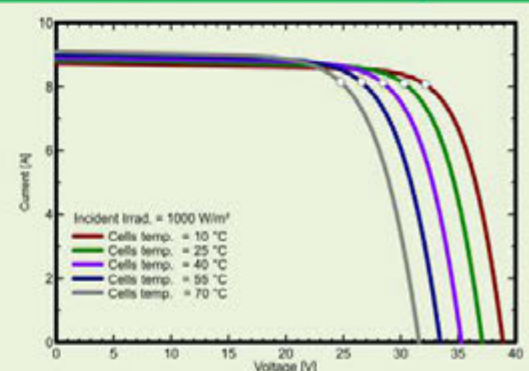


All Dimensions are in mm

### I-V Curve Variation with Irradiance



### I-V Curve Variation with Temperature



\*\* Refer to Waaree's Warranty document for Terms and Conditions

\*\*The Specifications are for reference purpose only. Waaree reserves the right to change the specifications without prior notice