

# TRANSFORMING THE POWER OF SUN



## NEXT GEN SOLAR PV MODULE 580-600 Wp

BEST IN CLASS EFFICIENCY

21.38%

### MBB Technology using M10 Half Cut Cells

#### FEATURES



Low LID Degradation using PERC Technology - Enhanced Power Generation during its Life Cycle



Improved Temperature Coefficients - Better Generation at Higher Temperature



Reduced Resistive Loss with MBB Technology - Excellent Module Performance



Half Cut Cell Design - Excellent performance under Partial Shading Conditions



Lower LCOE (Levelized Cost of Electricity) - Faster Return on Investment (ROI)



Variants - Monofacial & Bifacial options





**MONOFACIAL SOLAR  
PV MODULES**  
**580-600Wp**



**ELECTRICAL DATA - STC**

Model		JH-580M	JH-585M	JH-590M	JH-595M	JH-600M
Capacity Rating Wp	Pmax	580	585	590	595	600
Module Efficiency	%	20.67	20.85	21.03	21.21	21.38
Max. Power Voltage in V	Vpm	44.72	44.83	44.94	45.11	45.29
Max. Power Current in A	Ipm	12.97	13.05	13.13	13.19	13.25
Open Circuit Voltage in V	Voc	53.54	53.65	53.77	53.87	54.00
Short Circuit Current in A	Isc	13.79	13.86	13.92	13.99	14.05
Power Tolerance	Wp	-0/+4.99				

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

**MECHANICAL DATA**

Dimensions (L x W x H)	2470 mm x 1136 mm x 35 mm (optional 40 mm)
Weight	31.5 kgs
Junction Box	Split JB, IP 67/68 with 3 bypass diodes
Cable	"Solar Cable 4.0 mm <sup>2</sup> , 400 mm (Higher cable option available on request)"
Front Glass	3.2 mm, High Transmission, AR coated tempered glass
Solar Cells	Mono PERC Crystalline - M10 (156 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy

**TEMPERATURE RATINGS**

Nominal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

**PERMISSIBLE OPERATING CONDITIONS**

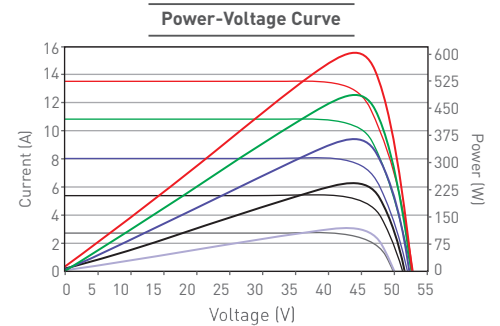
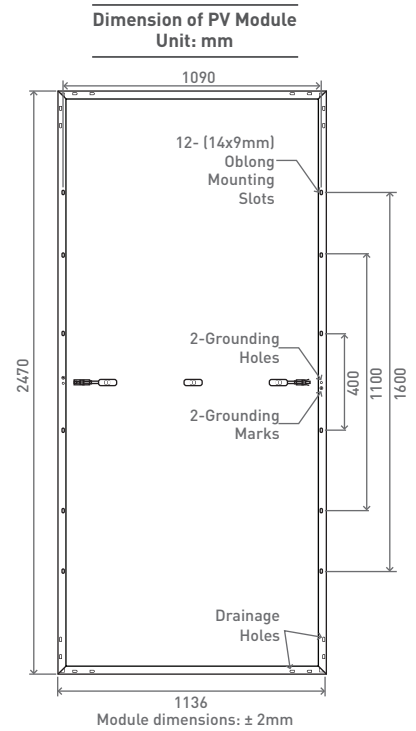
Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

**WARRANTY AND CERTIFICATIONS**

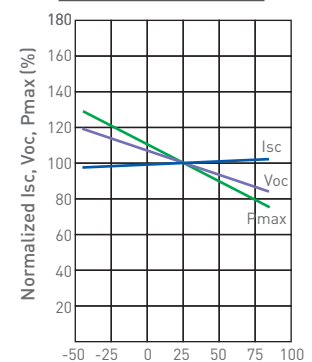
Product Warranty	10 years Product Workmanship Warranty
Performance Guarantee	25 year Linear Performance Warranty
Approvals and Certificates	**IEC 61215, IEC 61730 (I & II), IEC 61853, IEC 62804, IEC 60068, IEC 61701, IEC 62716, IS 14286 BIS ISO 9001:2015, 14001:2015, 45001:2018 certified facility in India



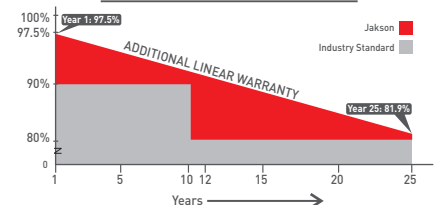
\*\*Certification under progress



**Cell Temperature (°C)**



**Linear Performance Warranty**



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