

TRANSFORMING THE POWER OF SUN



NEXT GEN SOLAR PV MODULE 535-555 Wp

BEST IN CLASS EFFICIENCY

21.39%

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**
535-555Wp



ELECTRICAL DATA - STC

Model		JH-535M	JH-540M	JH-545M	JH-550M	JH-555M
Capacity Rating Wp	Pmax	535	540	545	550	555
Module Efficiency	%	20.62	20.81	21.01	21.20	21.39
Max. Power Voltage in V	Vpm	41.47	41.64	41.80	41.93	42.05
Max. Power Current in A	Ipm	12.90	12.97	13.04	13.12	13.20
Open Circuit Voltage in V	Voc	49.45	49.60	49.75	49.90	50.00
Short Circuit Current in A	Isc	13.79	13.86	13.92	13.98	14.05
Power Tolerance	Wp	-0/+4.99				

* Under Standard Test Conditions (STC) of 1000 W/m2 irradiance, AM 1.5 spectrum and 25°C cell temperature.

MECHANICAL DATA

Dimensions (L x W x H)	2284 mm x 1136 mm x 35 mm (optional 40 mm)
Weight	29.5 kgs
Junction Box	Split JB, IP 67/68 with 3 bypass diodes
Cable	"Solar Cable 4.0 mm ² , 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 (144 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

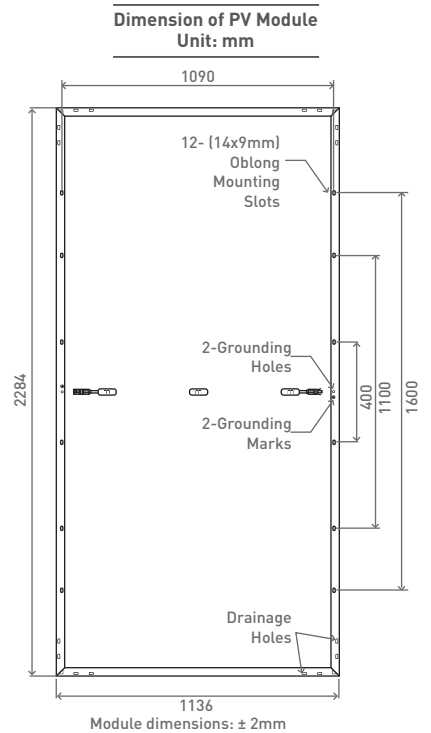
Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

WARRANTY AND CERTIFICATIONS

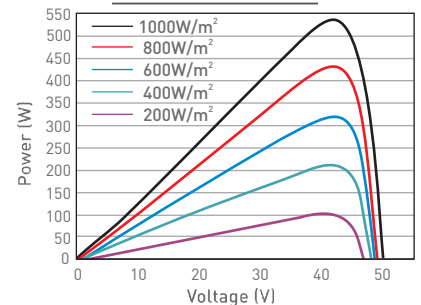
Product Warranty	10 years Product Workmanship Warranty
Performance Guarantee	25 year Linear Performance Warranty
Approvals and Certificates	**IEC 61215, IEC 61730 (I & II), IEC 61853, IEC 62804, IEC 60068, IEC 61701, IEC 62716, IS 14286 BIS ISO 9001:2015, 14001:2015, 45001:2018 certified facility in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



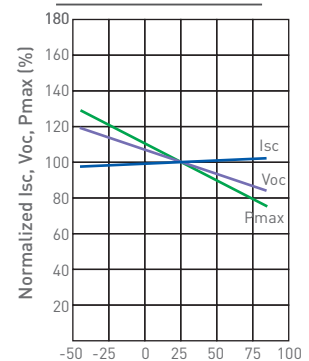
**Certification under progress



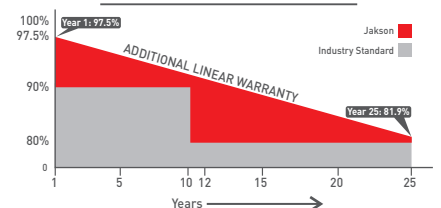
Power-Voltage Curve



Cell Temperature [°C]



Linear Performance Warranty



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