



NEXT GEN SOLAR PV MODULE 440-600 Wp



Best in Class Efficiency **21.50%**

MBB Technology **M10 Half Cut Cells**

Latest Water-less

Non-Destructive Cell Cutting (NDC)

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), UL 61730, ISO 9001:2015, 14001:2015, 45001:2018 certified, DEWA Approved



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)
- Manufactured in Fully Automatic Production Line
- 100% in line Hi-Pot testing, 100% EL Testing at 3 stages - Stringer, In process and Final Testing
- Manufactured using certified Tier 1 BOM Meeting Highest Quality Standards
- Certified for Pollution Degree II, Salt Mist Resistant (Severity 6), Ammonia & PID Resistant
- Better reliability under Extreme Environmental Conditions

580 - 600 Wp

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	%	20.77	20.95	21.13	21.30	21.48
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				

MECHANICAL DATA

Dimensions (L x W x H)	2465 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	31 kgs

535 - 555 Wp

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	%	20.73	20.92	21.12	21.31	21.50
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				

MECHANICAL DATA

Dimensions (L x W x H)	2278 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	29 kgs

490 - 510 Wp

ELECTRICAL DATA - STC*

Model		JH-490M	JH-495M	JH-500M	JH-505M	JH-510M
Capacity Rating Wp	Pmax	490	495	500	505	510
Module Efficiency	%	20.56	20.76	20.97	21.18	21.39
Max. Power Voltage in V	Vpm	38.20	38.30	38.40	38.52	38.64
Max. Power Current in A	Ipm	12.83	12.93	13.03	13.12	13.20
Open Circuit Voltage in V	Voc	45.50	45.62	45.75	45.99	46.10
Short Circuit Current in A	Isc	13.74	13.80	13.86	13.90	13.97
Power Tolerance	Wp	-0/+4.99				

MECHANICAL DATA

Dimensions (L x W x H)	2104 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	27 kgs

440 - 460 Wp

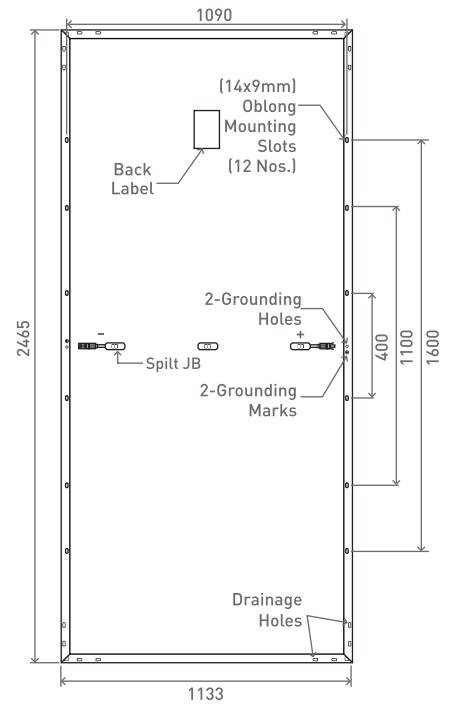
ELECTRICAL DATA - STC*

Model		JH-440M	JH-445M	JH-450M	JH-455M	JH-460M
Capacity Rating Wp	Pmax	440	445	450	455	460
Module Efficiency	%	20.23	20.46	20.69	20.92	21.15
Max. Power Voltage in V	Vpm	34.11	34.26	34.43	34.58	34.83
Max. Power Current in A	Ipm	12.90	12.99	13.07	13.16	13.21
Open Circuit Voltage in V	Voc	40.85	41.05	41.22	41.40	41.52
Short Circuit Current in A	Isc	13.74	13.80	13.86	13.92	13.99
Power Tolerance	Wp	-0/+4.99				

MECHANICAL DATA

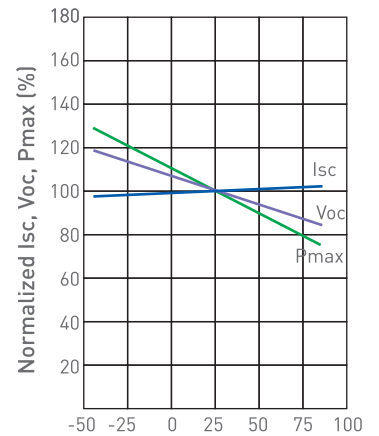
Dimensions (L x W x H)	1920 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	24 kgs

**Dimension of 580-600 Wp
Module (Unit: mm)**

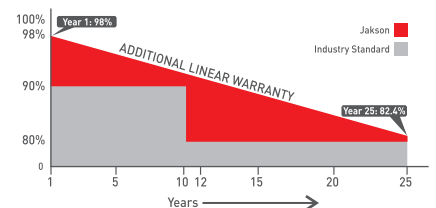


All Module dimensions: ± 2mm

Cell Temperature (°C)



**Linear Performance
Warranty**



*STC: Irradiance 1000 W/m², cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1. Measurement uncertainty ±3%

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