

# TRANSFORMING THE POWER OF SUN







## NEXT GEN SOLAR PV MODULE 525-555 Wp

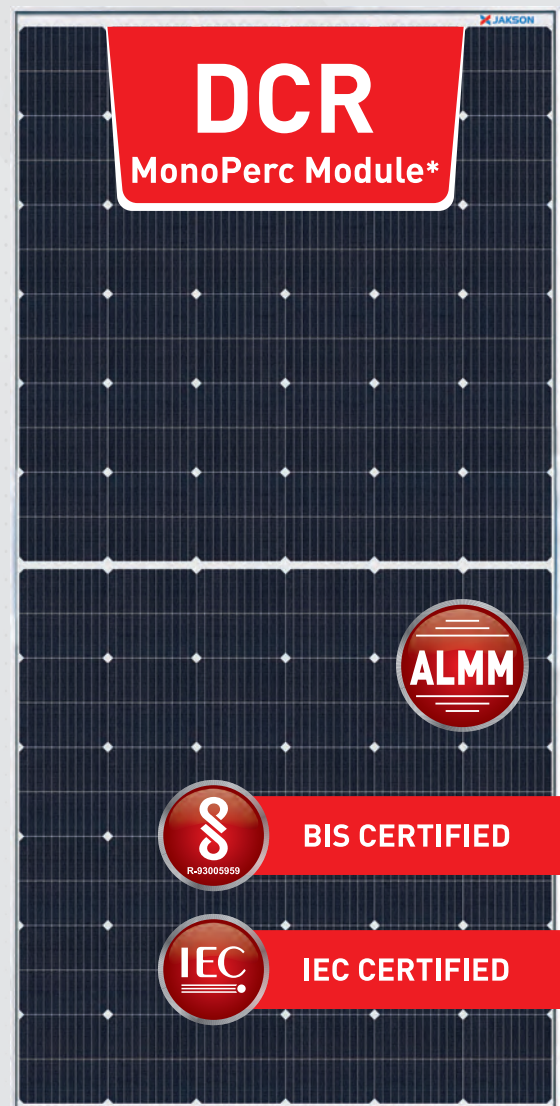
Best in Class Efficiency **Up to 21.50%**

MBB Technology **M10 Half Cut Cells**

Latest Water-less  
**Non-Destructive Cell Cutting (NDC)**

### 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



### 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



### ELECTRICAL DATA - STC

Model	Unit	JH-525M	JH-530M	JH-535M	JH-540M	JH-545M	JH-550M	JH-555M
Capacity Rating Wp	Pmax	525	530	535	540	545	550	555
Max. Power Voltage in V	Vpm	41.15	41.31	41.47	41.64	41.8	41.93	42.05
Max. Power Current in A	Ipm	12.76	12.83	12.90	12.97	13.04	13.12	13.2
Open Circuit Voltage in V	Voc	49.15	49.30	49.45	49.60	49.75	49.90	50.00
Short Circuit Current in A	Isc	13.65	13.72	13.79	13.86	13.92	13.98	14.05
Module Efficiency	%	20.34	20.53	20.73	20.92	21.12	21.31	21.50
Power Tolerance	Wp	-0/+4.99						

STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m<sup>2</sup> according to EN 60904-1. Measurement uncertainty ±3%

### MECHANICAL DATA

Dimensions (L x W x H)	2278 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	29 kgs
Junction Box	Split JB, IP 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 DCR (144 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°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 Warranty
Performance Guarantee	25 year Linear Performance Warranty

### PACKAGING CONFIGURATION

Container Size	40' HQ
Modules per Pallet	31
Modules per Container	620

\*Module Manufactured using Domestic (Make in India) Cells as per MNRE guidelines.

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