

TRANSFORMING THE POWER OF SUN













MONOFACIAL SOLAR PV MODULE 535-555 Wp

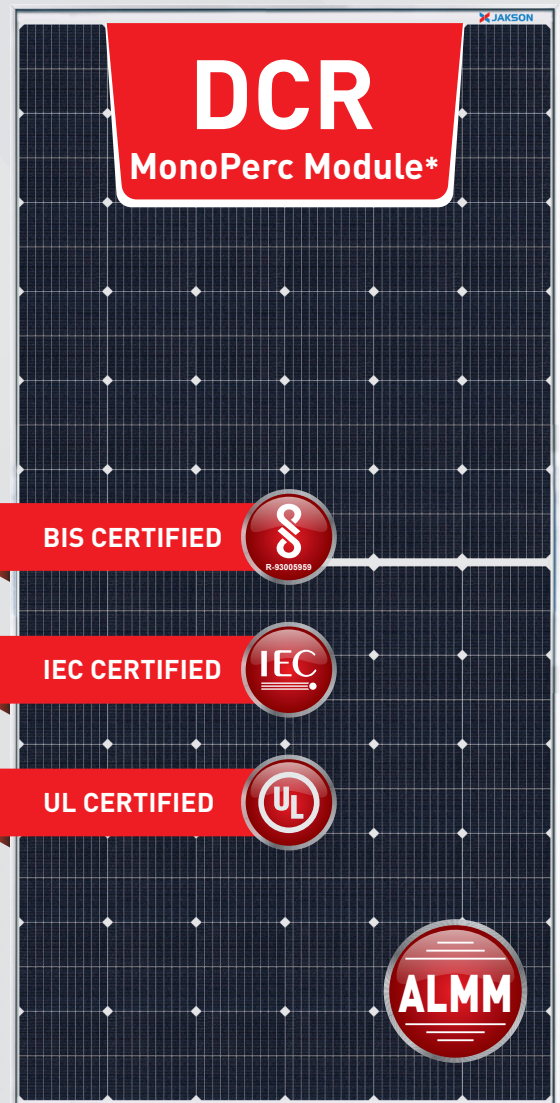
Best in Class Efficiency **21.50%**

MBB Technology **M10 Half Cut (144 Cells)**

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 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





**MONOFACIAL SOLAR
PV MODULES
535-555Wp**



ELECTRICAL DATA - STC

| Model | Unit | JH-535M | JH-540M | JH-545M | JH-550M | JH-555M |
|----------------------------|------|----------|---------|---------|---------|---------|
| Capacity Rating Wp | Pmax | 535 | 540 | 545 | 550 | 555 |
| Max. Power Voltage in V | Vmp | 41.47 | 41.64 | 41.8 | 41.93 | 42.05 |
| Max. Power Current in A | Imp | 12.90 | 12.97 | 13.04 | 13.12 | 13.2 |
| 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 |
| Module Efficiency | % | 20.73 | 20.92 | 21.12 | 21.31 | 21.50 |
| Power Tolerance | Wp | -0/+4.99 | | | | |

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%

MECHANICAL DATA

| | |
|--------------------------|--|
| Dimensions (L x W x H) | MM: 2278 x 1133 x 35 IN: 89.68 x 44.60 x 1.37 |
| Weight | 28 kgs 61.73 lbs |
| Junction Box | Split JB, IP 68 with 3 bypass diodes |
| Cable | Solar Cable 4.0 mm ² / 0.006 in ² , 400 mm / 15.75 in (Higher cable option available on request) |
| Front Glass | 3.2 mm / 0.126 in, 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 |

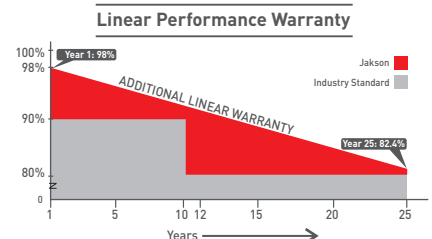
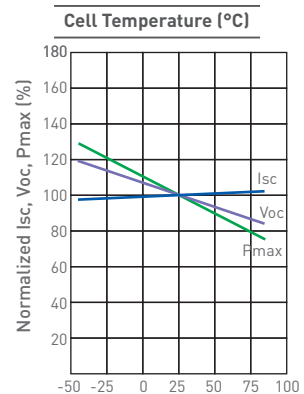
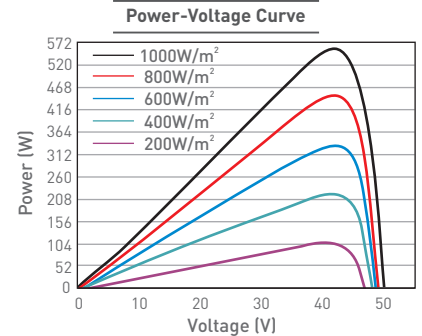
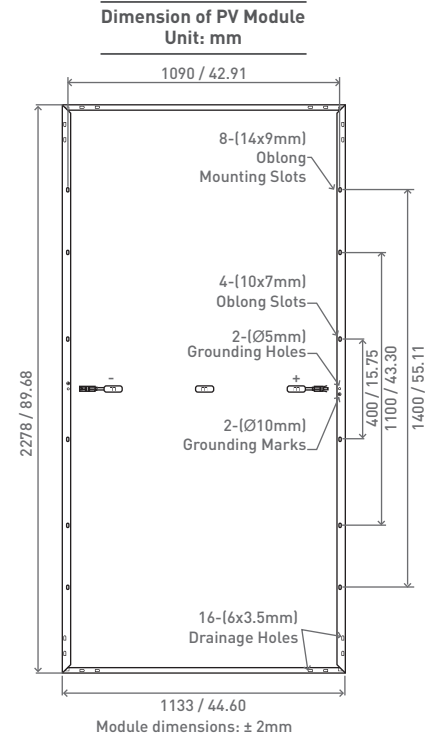
PACKAGING CONFIGURATION

| | | |
|--------------------|------|------|
| Vehicle Type | 32FT | 40FT |
| Module per Pallet | 28 | 28 |
| Module per Vehicle | 504 | 616 |

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

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