TRANSFORMING THE POWER OF SUN





BIFACIAL SOLAR PV MODULE 535-555 Wp

Best in Class Efficiency 21.50%

MBB Technology M10 Half Cut (144 Cells)
Bifacial Module With Transparent Backsheet

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



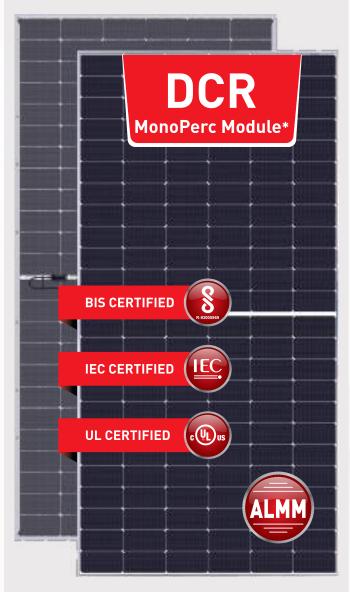
Manufactured using certified Tier 1 BOM Meeting Highest Quality Standards



Better reliability under Extreme Environmental Conditions



Bifacial gain of **Up To 25% with Transparent Backsheet Module,** capable of energy generation with both direct and reflected sunlight.



Approvals and Certi(cates:

IS 14286, IEC 61215, IEC 61730 (I & II), IEC 61853 IEC 62804, IEC 60068, IEC 61701, IEC 62716, UL 61730 ISO 9001:2015, 14001:2015, 45001:2018 certified



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BIFACIAL SOLAR PV MODULES WITH TRANSPARENT BACKSHEET 535-555Wp



ELECTRICAL DATA - STC						
Model	Unit	JH-535BT	JH-540BT	JH-545BT	JH-550BT	JH-555BT
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	lmp	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	lsc	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: $1000 \, \text{W/m}^2$, cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 $\, \text{W/m}^2$ according to EN 60904-1. Measurement uncertainty $\pm 3\%$

BI-FACIAL OUTPUT - REARSIDE POWER GAIN**						
		JH-535BT	JH-540BT	JH-545BT	JH-550BT	JH-555BT
10%	Power Output (W)	589	594	600	605	611
	Module Efficiency (%)	22.82	23.01	23.25	23.44	23.67
15%	Power Output (W)	615	621	627	633	638
	Module Efficiency (%)	23.83	24.06	24.29	24.53	24.72
20%	Power Output (W)	642	648	654	660	666
	Module Efficiency (%)	24.87	25.11	25.34	25.57	25.80
25%	Power Output (W)	669	675	681	688	694
	Module Efficiency (%)	25.92	26.15	26.39	26.66	26.89
Bifaci	iality Factor			70±5%		

^{**}Bifaciality gain is dependent on various factors (Ground Reflectance, Tilt Angle, Location, etc.)

MECHANICAL DATA MM: 2278 x 1133 x 35 | IN: 89.68 x 44.60 x 1.37 Dimensions (L x W x H) Weight 28 kgs | 61.73 lbs Split JB, IP 68 with 3 bypass diodes Junction Box Solar Cable 4.0 mm² / 0.006 in², 400 mm / 15.75 in Cable (Higher cable option available on request) Front Superstrate 3.2 mm / 0.126 in, High Transmission, AR coated tempered glass Mono PERC Crystalline - M10 DCR* (144 pcs Half Cut) Solar Cells Cell Encapsulation EVA & EPE (PID & UV Resistant) Back Substrate Transparent Backsheet Frame Anodized Aluminium Alloy 5400 Pa (Snow Load), 2400 Pa (Wind Load) Mechanical Load Strength

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	

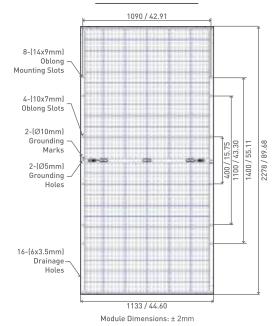
PERMISSIBLE OPERATING CONDITIONS			
Temperature Range	-40°C to +85°C		
Maximum System Voltage	1500 V DC		
Max Series Fuse Rating	30 A		

WARRANTY AND CER	TIFICATIONS	
Product Warranty	12 years Product Warranty	
Performance Guarantee	25 year Linear Performance Warranty	
DACKACING CONFIG	IDATION	

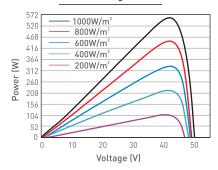
PACKAGING CONFIGURATION			
Container Size	40' HQ	32' HQ	
Modules per Pallet	31	31	
Modules per Container	620	496	

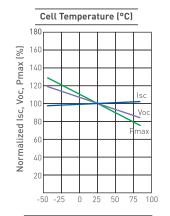
^{*} Module Manufactured using Domestic (Make in India) Cells as per MNRE guidelines.

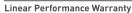
Dimension of PV Module Unit: mm / in

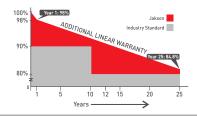


Power-Voltage Curve









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