



520 - 545 Wp



144 Half Cut MONO PERC

520Wp | 525Wp | 530Wp 535Wp | 540Wp | 545Wp

APPLICATION

- On-grid large scale utility systems
- On-grid rooftop industrial and commercial systems
- Rooftop residential systems
- Solar Pump System
- Floating Solar Application













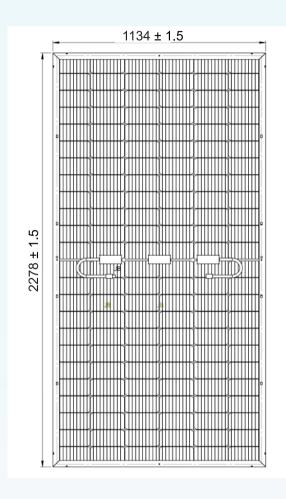






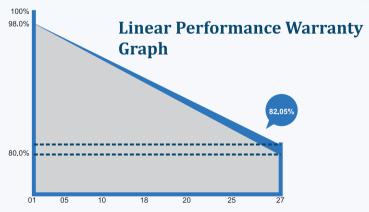
KEY FEATURES

- 1. Additional Power yield with 27 YEARS OF PRODUCT LIFETIME with 0.5% annual power degradation
- 2. LCOE IS CUT BACK with LESS BOS COST which improves value proposition of the product with competitive ROI
- 3. TWO PEAK PERFORMANCE TIME, for optimum utilization of dual facial Generation
- 4.Hassle-free installation with ability to INSTALL VERTICALLY IN EAST WEST DIRECTION, with improved soiling resistant
- 5. LOWER INTERNAL RESISTANCE boosts module power helping to achieve minimal power loss
- 6.Excellent PID performance guarantee limited power degradation.
- 7. Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline, ammonia,
- 8. CYLINDRICAL TABBING WIRE is used to reduce the shadow on cell active area
- 9. HIGHER NUMBER OF BUSBAR makes the PV modules less prone to loss in efficiency and increase tolerance to micro cracks



Linear Performance Warranty

* Product workmanship (Material and Processing) Warranty 12 years * Performance Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.55% from year 2 to year 27



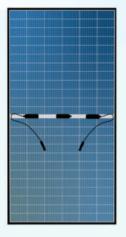
Certifications & Standards:

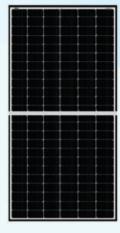
IEC 61215 , IEC 61730-1 , IEC 61730-2 , IS:14286 , IEC 62716 ,IEC 62804 , IEC 60068-2-68 , IEC 61853, IEC 61701

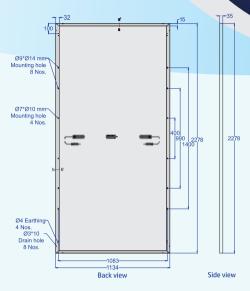


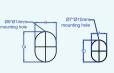


Solar cell size 182 x 182mm













Electrical Data Performance

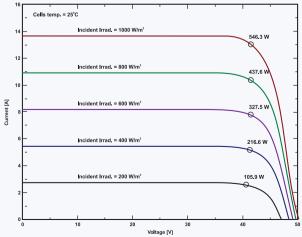
Module Type	Unit	-144 MHC -WF-520	-144 MHC -WF-525	-144 MHC -WF-530	-144 MHC -WF-535	-144 MHC -WF-540	-144 MHC -WF-545
Peak Power -Pmax	Wp	520	525	530	535	540	545
Maximum voltage (Vmpp)	V	41.14	41.29	41.45	41.60	41.75	41.90
Maximum current (Impp)	Α	12.65	12.73	12.80	12.88	12.95	13.02
Open circuit voltage (Voc)	V	49.01	49.16	49.31	49.46	49.61	49.76
Short circuit current (Isc)	Α	13.55	13.63	13.69	13.76	13.83	13.90
Module Efficiency	%	20.14	20.33	20.53	20.72	20.91	21.11
Operating Temperature range (°C)	-40 ~+85°C			Power Tolerance		0~+2%	
Maximum system voltage	1500 VDC			Nominal operating cell temperature (NOCT)		45 ± 2 °C	
Maximum series fuse rating	25A			Fire Safety		Class-C (Type 1)	
Temperature coefficients of Isc (α)	± 0.01			Application		Class-A	
Temperature coefficients of Pmax (γ)	± 0.02			Safety Class		Class II	
Temperature coefficients of Voc (β)	-0.028%/°C						

^{**}STC: Irradiance 1000 W/m2 module temperature 25* °C, Am=1.5; NOCT: Irradiance 800 W/m2, ambient teperature 20°C, Am=1.5, Wind speed 1m/s. Average power reduction of 4.5% at 200 W/m2 as per IEC 60904-1. Measuring Uncertainty +/- 3% **Power gain from rear side depends upon the ground reflectance (Albedo) 8 Bifaciality factor.

MODULE MECHANICAL DATA

MODULE MECHANICAL DATA				
SPECIFICATION	DATA			
Cell Type	Type 72 Mono PERC (144 half cut cells)			
Dimensions	2278X1134X35mm (LxWxH) ± 1.5 mm			
Weight	$27.50 \pm 0.50 \text{ kg}$			
Front Cover	3.2 mm High Transmission, Low iron, Tempered Glass, AR coated			
Cell Encapsulant	EVA (Ethylene Vinyl Acetate) -FC/UFC			
Back sheet	Composite Film White Back sheet			
J-Box	IP68 Split type Junction box with individual bypass diodes			
Cable	300mmx2nos solar cable, 4mm2			
Connectors	MC4 Compatible Connector IEC/UL Certified			
Frame Material	Silver Anodized Aluminium frame with twin wall profile			
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)			
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s			
Standard Packaging	19, 26, 28 & 31 Pieces/Pallet			

I-V Characteristics at Different Irridance PV Module Model - INA-144 MHC-WF- 545





CAUTION: READ SAFETY AND DETAIL INSTALLATION MANUAL BEFORE USING THE PRODUCT (Refer Our Website).

- Note:

 The specifications included in this datasheet are subject to change without notice.

 The electrical data given here is for reference purpose only.

 Please confirm your exact requirements with the sales representative while placing your order. All models sold will be as per MSPVL QAP.





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Range 40 Wp to 545 Wp







Range 440 VA to 2500 VA

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