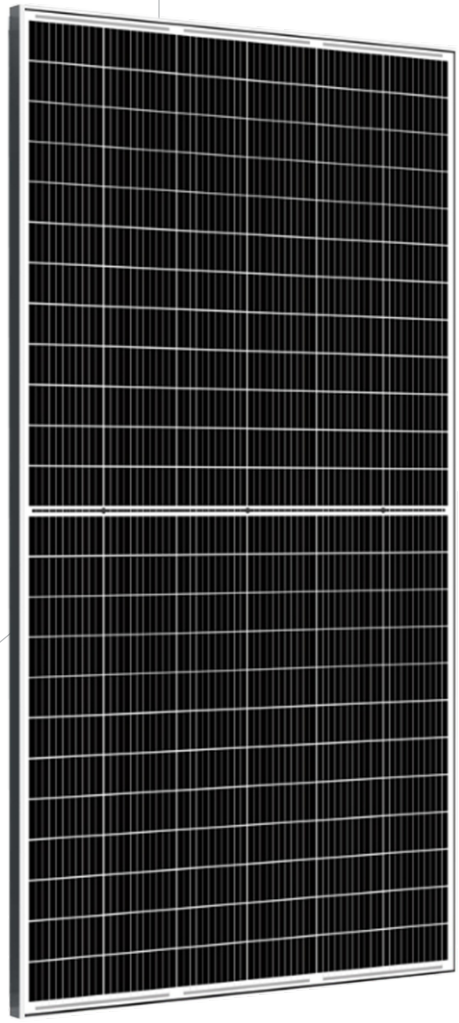


Solar Modules
550 Wp (Non-DCR)
Half Cut MONO PERC 10BB
Bifacial (Transparent Back Sheet)

(Bifacial)

PRODUCT | KEY FEATURES

- Anti-Reflective (AR) Coated Glass for Enhanced Power
- Excellent Module Efficiency with Bifacial Power Gain
- Positive Power Tolerance with Current Binning to Prevent Mismatch Losses
- Pre and Post EL Checking With High Resolution Camera
- IP68 Junction Box for Long Term Endurance
- 100% Hi-Pot Testing to Ensure Safety
- MBB Half-Cell Technology provides Better Performance under Partial Shading

THE INDUSTRY'S BENCHMARK

Microtek Solar is an internationally renowned leading solar energy cost effective befitting solutions provider.

Our PV modules are the best in class in terms of power output and long-term reliability.

PRODUCT CERTIFICATES

IEC CB Scheme | IEC 61215 | IEC 61730-1 / 2 | IS 14286 | CE
IEC CB Scheme | Design Qualification | Safety Qualification | BIS Qualification | European Conformity

ISO 9001 | ISO 14001 | ISO 45001 | PVTECH | ArialRe
Certified Mfg. Process | Environmental Mgt. System | Health & Safety Mgt. System | Bankable Product | Reinsured by ArialRe

MADE IN INDIA

30 YEARS — Industry leading linear power output warranty*

15 YEARS — Product warranty on materials and workmanship**

* First year power degradaton warranty shall be 2% and linear power warranty from year 2 to year 30. w.e.f. 1st October 2025.

**15 years product warranty for Dual Glass modules and 12 years product warranty for modules with transparent backsheet. w.e.f. 1st October 2025.

TECHNICAL DATA

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement uncertainty: < ±3%. Average value of NOCT: 44.28 ± 2 °C]

ELECTRICAL CHARACTERISTICS*	RSB550WC	
	STC	NOCT
Nominal Maximum Power (Pmax)	550 W	407 W
Optimum Operating Voltage (Vmp)	42.14 V	38.80 V
Optimum Operating Current (Imp)	13.06 A	10.49 A
Open Circuit Voltage (Voc)	50.06 V	47.09 V
Short Ciruit Current (Isc)	13.65 A	11.06 A
Module Efficiency	21.32 %	

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 75% ± 10%]

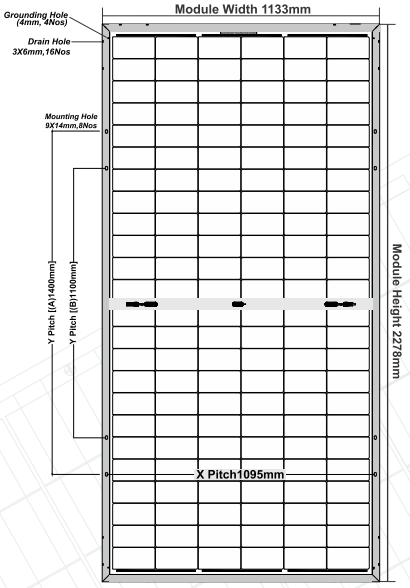
[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)]

5%	Nominal Maximum Power (Pmax)	578 W
	Module Short Circuit Current / Efficiency	14.33 A / 22.39 %
10%	Nominal Maximum Power (Pmax)	605 W
	Module Short Circuit Current / Efficiency	15.02 A / 23.46 %
25%	Nominal Maximum Power (Pmax)	688 W
	Module Short Circuit Current / Efficiency	17.06 A / 26.65 %

Mechanical Specifications

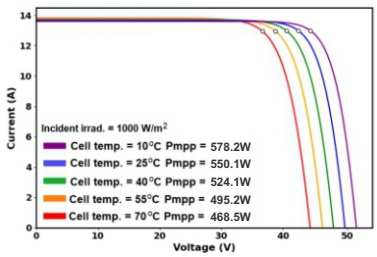
Dimensions (L x W x T in mm)	2278 x 1133 x 40
Net Weight(±1Kg)	28.6Kgs.
Cell type / No Of Cell	144 Half-cut Mono PERC Bifacial Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	ARC coated Low Iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinyl Acetate (EVA) - PID resistant and UV resistant
Back Cover	Corona treated PVDF Fluoro-polymer based transparent Backsheet
Junction Box	Split type (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	40 A, 45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 400 mm length (Customised cable length available on request)
Connectors	MC4 compatible (MC4 original available on request)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test (as per IEC & UL)	5400 Pa-Front; 2400 Pa-Back
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 1100
Mounting Holes Pitch (X)-mm	1095

BACK VIEW

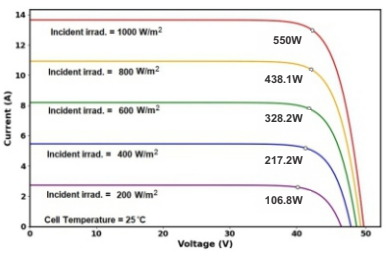


SIDE VIEW

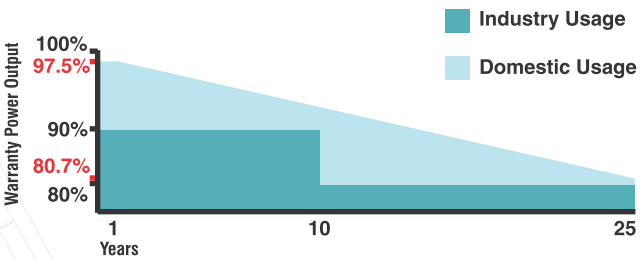
IV Curve Variation with Temperature



IV Curve Variation with Irradiance



IV Curves for Front-Side illumination of 550Wp Panel



Industry Leading Linear Warranty

*All dimensions are in mm with +/- 2mm tolerance.

*graphics shown herein above are reference purpose only.

MAXIMUM OPERATING CONDITIONS	
Operating Temperature:	-40°C to +85°C
Maximum System Voltage:	1500V
Maximum Series Fuse Rating:	25 A

TEMPERATURE COEFFICIENTS	
Current α(Isc) :	0.0284%/Ċ
Voltage β(Voc) :	-0.2444%/Ċ
Power ϒ(Pmax) :	-0.3210%/Ċ

STACKING STANDARD	22FT	32FT	40FT
No. of Modules per Container:	270	432	540
No. of Pallets per Container:	10	16	20
No. of Modules per Pallet/Weight:		27 Nos/820 Kg	
Pallet Dimensions:		2320*1000*1275	

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Give a Missed Call on: 9711666444 **E-mail:** ho@microtekdirect.com

NOTE: Because of a policy of continuous product improvement, the specifications are subject to change without notice.