

SOLRAY / M10 / GTB 144 525-550 W

WEBSOL

POWERING TOMORROW'S ENERGY

Cell
Technology

MONO PERC

Power
Per Module

525-550 W

Maximum
Efficiency %

21.29 %

Product
Warranty

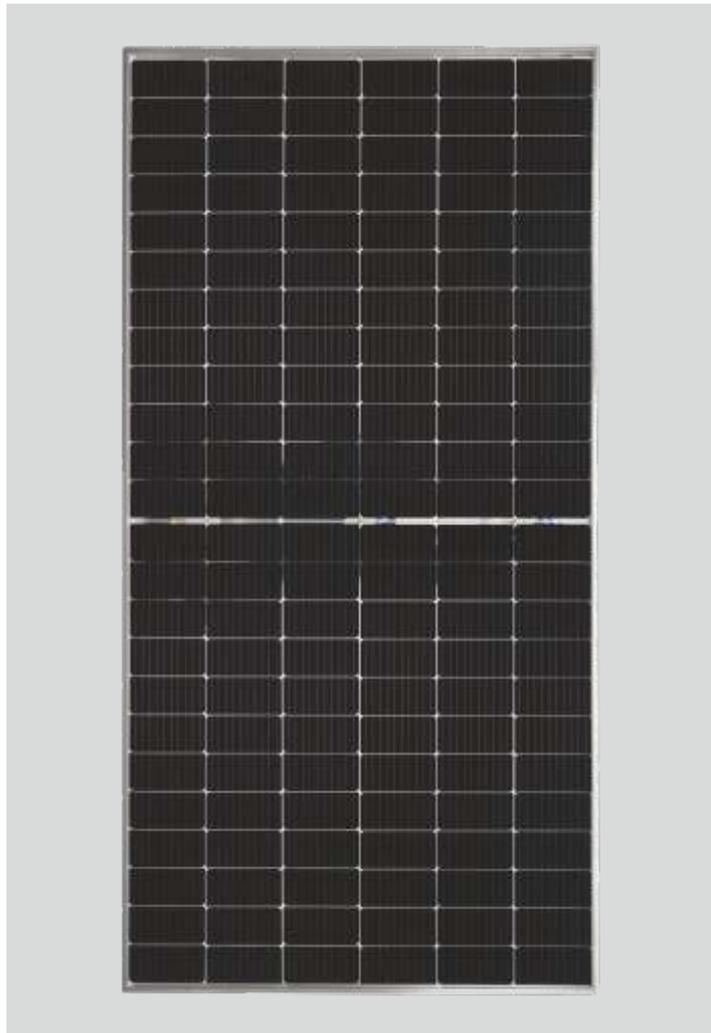
10 Yrs.

Performance
Warranty

27 Yrs.

Number of
Busbars

10 BB



Salient Features



High Performance

Higher module power and module efficiency, lower power degradation. Lower installation cost of power plant.



Environment Friendly

Wide range of applications, such as snow areas, high humidity areas and strong sandstorm areas, etc.



LID & LeTID

Very low degradation for LID and LeTID



PID Resistance

PID resistance cell and module design.



Innovational Half-Cut & Multi-Busbar Technology

Lower risk of micro crack, lower risk of shading effect and high reliability



Bifacial Design

Up to 15% additional power gain, higher revenue generation and faster ROI.



Positive Tolerance

Guaranteed positive tolerance (0 ~ 4.99W) to ensure rated nominal power output.

Model No. W5500-GTB-MPXXX
[XXX refers to power (Wp)]

Glass To Transparent Backsheet
Bifacial Module

Warranty Curve



Suitable For



Residential



Utility



Commercial



Off-Grid

Certifications



IEC 61215-1:2021, IEC 61215-2:2021, IEC 61730-1:2023, IEC 61730-2:2023,
UL 61215-1:2021, UL 61215-2:2021, UL 61730-1:2022, UL 61730-2:2022,
CSA C22.2 No. 61730-1:19, CSA C22.2 No. 61730-2:19, IEC TS 63342: 2022 (LeTID),
IEC 61215-2:2021 (LID), IEC TS 62804-1 (PID), IEC 61701:2020 & EN IEC 61701:2020 (Salt Mist),
IEC 62716: 2013 (Ammonia Corrosion)

Corporate Office

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ELECTRICAL SPECIFICATION AT STC*

PEAK POWER Pmax (Wp) (0~+4.99 Wp)	525	530	535	540	545	550
Module Efficiency	20.32%	20.52%	20.71%	20.90%	21.10%	21.29%
Maximum Voltage Vmp (V)	40.94	41.09	41.16	41.30	41.45	41.52
Maximum Current Imp (A)	12.83	12.90	13.00	13.08	13.15	13.25
Open-Circuit Voltage Voc (V)	48.74	48.89	48.96	49.10	49.25	49.32
Short-Circuit Current Isc (A)	13.38	13.42	13.51	13.52	13.58	13.68

*Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C

ELECTRICAL SPECIFICATION AT NOCT**

Peak Power at NOCT (Wp)	386	393	397	401	404	408
Maximum Voltage Vmp (V)	38.14	38.37	38.44	38.68	38.9	39.04
Maximum Current Imp (A)	10.13	10.25	10.33	10.37	10.39	10.46
Open-Circuit Voltage Voc (V)	45.74	46.16	46.18	46.33	46.47	46.56
Short-Circuit Current Isc (A)	10.75	10.75	10.83	10.84	10.86	10.96

**NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

OPERATING CONDITION

Maximum System Voltage (UL & IEC)	1500VDC
Maximum Series Fuse Rating (A)	30A
Operating Temperature Range (°C)	-40 °C to +85 °C
Maximum Static Load (Snow or Wind)	5400 Pa (Snow load), 2400 Pa (Wind load)

MODULE MECHANICAL CHARACTERISTICS

Module Dimensions (L*W*H) mm	2278mm x1134mm x 40/35mm
Module Weight	29±1Kg (approx.)
Number of Cells & Size	144 Half cut cell (182 x 91)mm (M10)
Frame Material	Anodized aluminum frame
Cable and Connector	300 mm length cables, MC4 Compatible Connectors
Front Glass	3.2 mm, ARC tempered glass
Encapsulate	EVA
Transparent Backsheet	High transmittance composite film
Junction Box	IP68, Split Junction Box with individual bypass diodes

TEMPERATURE COEFFICIENT

Nominal Operating Cell Temperature	45±2 °C
Coefficient of Power (Pmax)	-0.32%/ °C
Coefficient of Voltage (Voc)	-0.26% / °C
Coefficient of Current (Isc)	0.042% / °C

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ELECTRICAL PARAMETERS AT BNPI***

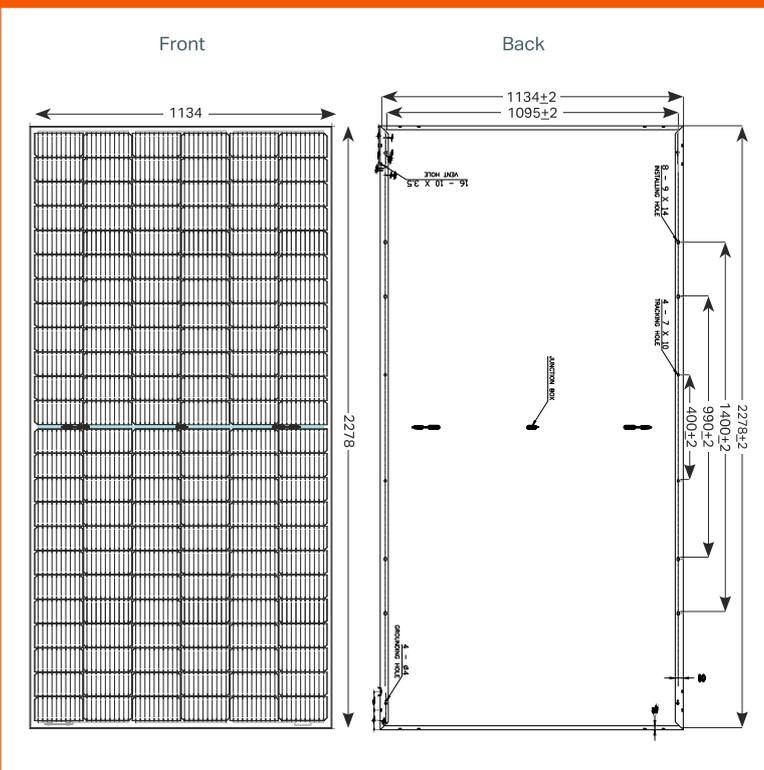
Peak Power at BNPI Pmax (Wp)	575	580	586	591	597	602
Maximum Voltage Vmp (V)	40.94	41.09	41.16	41.30	41.45	41.52
Maximum Current Imp (A)	14.04	14.12	14.23	14.31	14.39	14.50
Open-Circuit Voltage Voc (V)	48.74	48.89	48.96	49.10	49.25	49.32
Short-Circuit Current Isc (A)	14.64	14.69	14.79	14.80	14.86	14.97

***Bifacial gain is dependent on albedo from surface behind the panel (Bifacial factor Φ Pmax: -70±5%, Voc: -99±1%, Isc: -70±5%)

For STC, NOCT and BNPI, except Pmax, all other parameters have a tolerance of ±5%. Measurement uncertainty of ±2%.

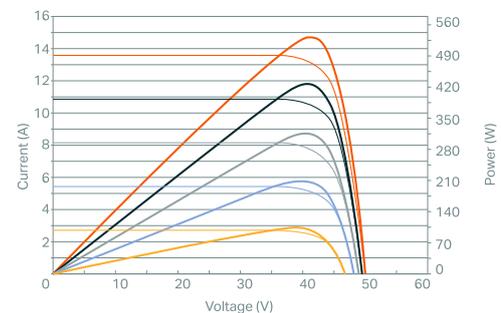
BNPI: Irradiance front 1000W/m² and rear 135 W/m², cell temperature 25°C, AM=1.5.

ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE

PV Module: W5500-GTB-MP545
Cell temp = 25°C



PACKING AND SHIPPING INFORMATION

Number of Modules Per Pallet	31 Pcs
Number of Pallets Per 40ft Container	20 Pcs
Number of Panel / 40ft	620 Pcs

Warranty claims shall be governed in accordance with the guidelines provided in Websol's product manual.

- A Linear Performance Warranty applies, allowing a maximum power degradation of 2% in the first year, followed by 0.55% per year from the 2nd year through the 27th year.
- At the end of its service life, the product must be disposed of responsibly as E-waste to support environmental protection.
- During unpacking and installation, users must carefully follow the instructions stated in Websol's manual to ensure correct handling and installation, thereby reducing the risk of product damage.
- The specifications provided in this datasheet may be revised at any time without prior notice, and the electrical data is informational only and not guaranteed. Customers should confirm their exact requirements with an authorized Websol representative when placing an order. Websol and its associated logos are registered trademarks of Websol Energy System Limited in India.

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