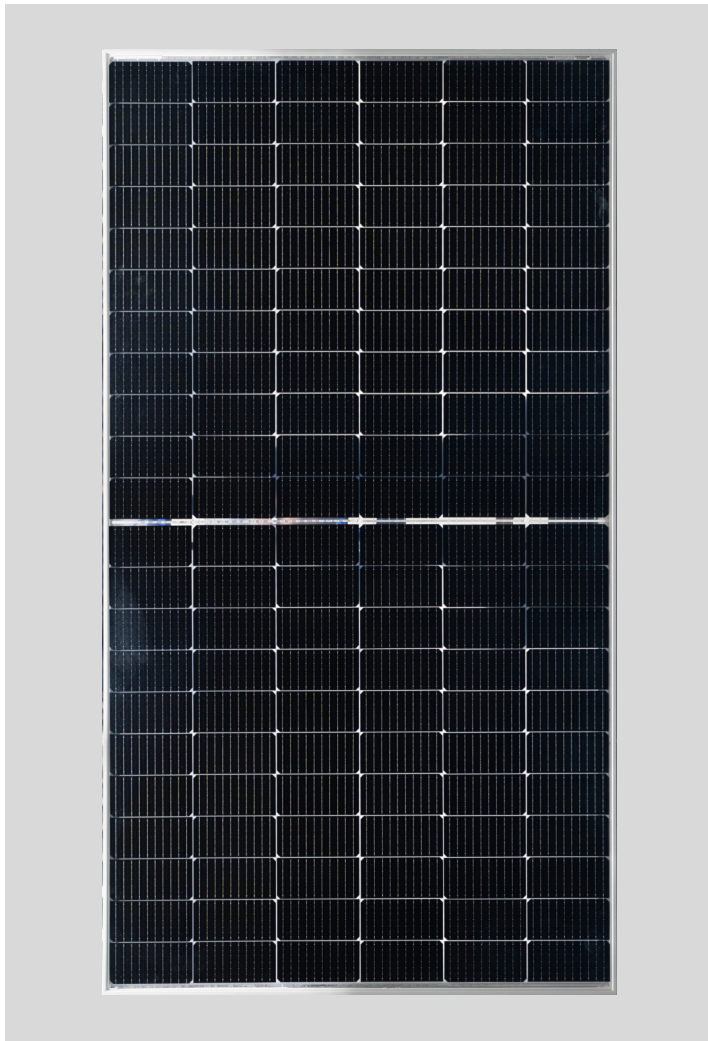


SOLRAY / M10 / GTB 132 480-505 W

WEBSOL

POWERING TOMORROW'S ENERGY

Cell Technology MONO PERC	Power Per Module 480-505 W	Maximum Efficiency % 21.27 %	Product Warranty 10 Yrs.	Performance Warranty 27 Yrs.	Number of Busbars 10 BB
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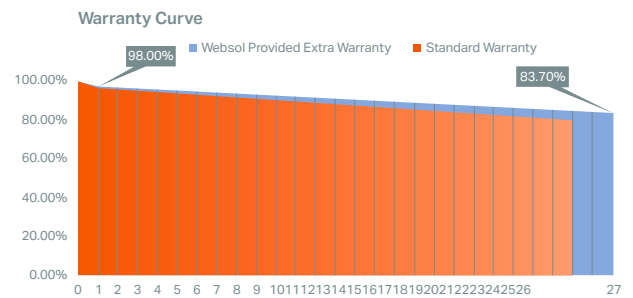


Salient Features





- 
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. W5000-GTB-MPXXX
[XXX refers to power (Wp)]

Glass To Transparent Backsheet
Bifacial Module



Suitable For

-  Residential
-  Utility
-  Commercial
-  Off-Grid

Certifications



IEC 61215-1:2021, IEC 61215-1-1:2021, IEC 61215-2:2021, IEC 61730-1:2023, IEC 61730-2:2023,
 UL 61215-1:2021, UL 61215-1-1:2021, 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)

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ELECTRICAL SPECIFICATION AT STC*

PEAK POWER Pmax (Wp) (0~+4.99 Wp)	480	485	490	495	500	505
Module Efficiency	20.21%	20.42%	20.64%	20.85%	21.06%	21.27%
Maximum Voltage Vmp (V)	37.62	37.80	37.90	38.00	38.10	38.20
Maximum Current Imp (A)	12.76	12.83	12.93	13.03	13.12	13.22
Open-Circuit Voltage Voc (V)	44.62	44.81	44.88	45.01	45.14	45.21
Short-Circuit Current Isc (A)	13.37	13.42	13.51	13.52	13.57	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)	350	357	361	356	368	372
Maximum Voltage Vmp (V)	34.82	35.08	35.18	35.38	35.55	35.72
Maximum Current Imp (A)	10.06	10.18	10.26	10.33	10.36	10.42
Open-Circuit Voltage Voc (V)	41.62	42.06	42.10	42.24	42.36	42.45
Short-Circuit Current Isc (A)	10.74	10.75	10.83	10.84	10.85	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	2094mm x1134mm x 40/35mm
Module Weight	25±1Kg (approx.)
Number of Cells & Size	132 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***

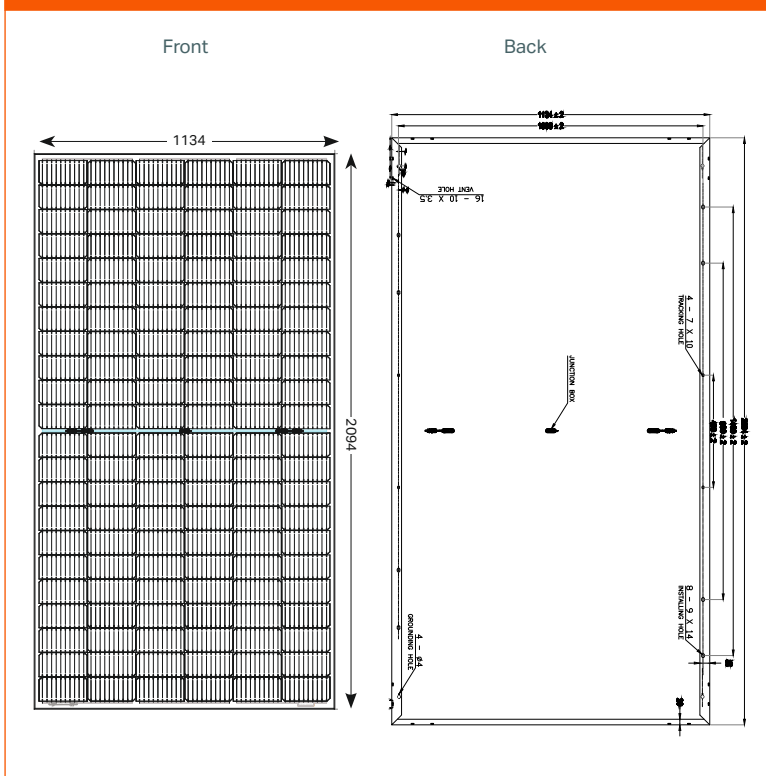
Peak Power at BNPI Pmax (Wp)	525	531	536	542	547	553
Maximum Voltage Vmp (V)	37.62	37.80	37.90	38.00	38.10	38.20
Maximum Current Imp (A)	13.96	14.05	14.15	14.27	14.36	14.48
Open-Circuit Voltage Voc (V)	44.62	44.81	44.88	45.01	45.14	45.21
Short-Circuit Current Isc (A)	14.63	14.69	14.79	14.80	14.85	14.97

***Bifacial gain is dependent on albedo from surface behind the panel (Bifacial factor Φ Pmax: $-70\pm5\%$, Voc: $-99\pm1\%$, Isc: $-70\pm5\%$)

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

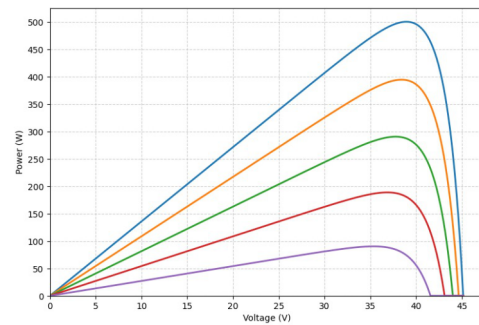
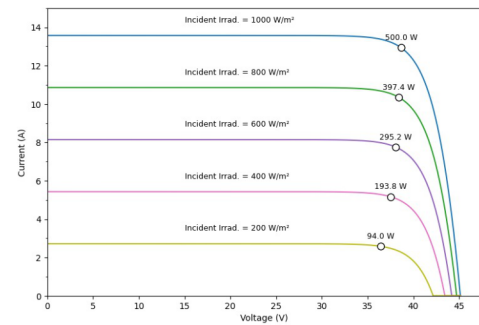
BNPI: Irradiance front 1000W/m² and rear 135 W/m², cell temperature 25°C, AM=1.5.

ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE

PV Module: W5000-GTB-MP500
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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