

Mono PERC Bifacial

540 - 550 Wp

144 Half-Cell Bifacial Module
W5500-GTB-MPXXX



21.29%
Maximum
Efficiency

12 YEARS
Product
Warranty

25 YEARS
Performance
Warranty

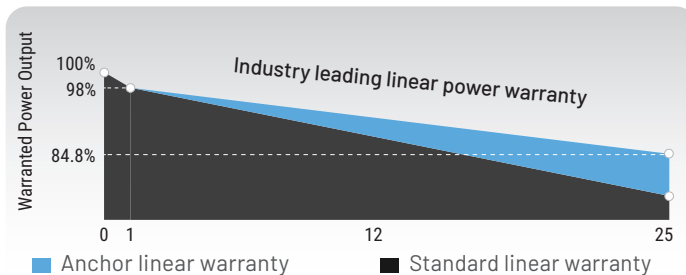
0+5W
Positive Power
Tolerance

75% +/- 10%
Bifaciality
Factor

Industry-Leading Warranty based on Nominal Power

2% First Year
Degradation

0.55% Annual
Degradation



- Low Temperature Coefficient $-0.32\%/^{\circ}\text{C}$
- Withstands Harsh Environment
- Apt for Ground Mount and Commercial & Industrial use
- Tested for wind load (2400 pascals) & Snow load (5400 pascals)
- Superior Resistance to effects of LID and PID
- Higher Energy yield with rear side generation.

Quality Test and Certification



* Please refer to PLSIND Standard Module Installation Manual for details. ** Please refer to PLSIND Product Warranty for details.

W5500-GTB-MPXXX

ELECTRICAL CHARACTERISTICS

STC	W5500-GTB-MPXXX		
Nominal Maximum Power (Pmax)	540W	545W	550W
Optimum Operating Voltage (Vmp)	41.30V	41.45V	41.52V
Open Circuit Voltage, Voc	49.10V	49.25V	49.32V
Optimum Operating Current (Imp)	13.08A	13.15A	13.25A
Short Circuit Current, Isc	13.52A	13.58A	13.68A
Module Efficiency	20.90%	21.09%	21.29%
Operating Temperature OC	-40°C ~ +85°C		
Maximum System Voltage	1500 V DC (IEC)		
Maximum Series Fuse Rating	30 A		
Power Tolerance	0, +5Wp		

STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM=1.5
PLSIND reserves the right to adjust the listed parameters without notice.

NMOT	W5500-GTB-MPXXX		
Nominal Maximum Power (Pmax)	401W	404W	408W
Optimum Operating Voltage (Vmp)	38.68V	38.90V	39.04V
Open Circuit Voltage (Voc)	46.33V	46.47V	46.56V
Optimum Operating Current (Imp)	10.37A	10.39A	10.46A
Short Circuit Current (Isc)	10.84A	10.86A	10.96A

NMOT: Irradiance 800 W/m², ambient temperature 20°C, AM=1.5, wind speed 1 m/s.
PLSIND reserves the right to adjust the listed parameters without notice.

BIFACIAL GAIN (75±10%)	W5500-GTB-MPXXX		
5% Power Pmax	567.00W	572.25W	577.50W
10% Power Pmax	594.00W	599.50W	605.00W
25% Power Pmax	675.00W	681.25W	687.50W

• Bifacial gain depends on the power plant design and albedo of installation site
• Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC Measuring Tolerance: ±3%

TEMPERATURE CHARACTERISTICS

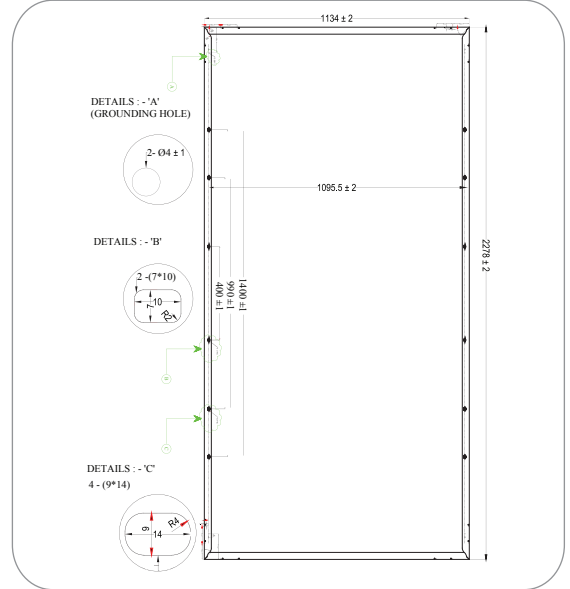
Temperature Coefficient of Pmax(γ)	-0.32 %/°C
Temperature Coefficient of Voc(β)	-0.25 %/°C
Temperature Coefficient of Isc(α)	0.041 %/°C

MECHANICAL CHARACTERISTICS

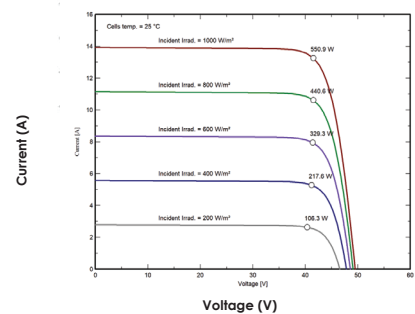
Cell Type	Mono PERC Bifacial 91 mm * 182mm
No. of Cells	144 (12x6 II 12x6)
Dimensions	2278 X 1134 X 35 mm
Weight	28.4 kg
Front Glass	3.2mm, High Transmission, Low Iron, Tempered glass
Rear Cover	High Transparent Backsheet
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	300mm in length
Connectors	MC4 Compatible

PACKAGING CONFIGURATION

Container	40'GP
Pieces per pallet	31
Pallets per container	20
Pieces per container	620

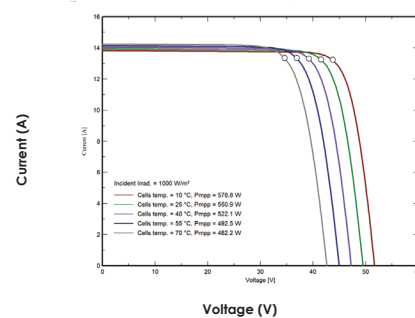


PV Module : W5500-GTB-MPXXX



IV Curve Variation with Irradiance

PV Module : W5500-GTB-MPXXX



IV Curve Variation with Temperature

PLSIND stands for Panasonic Life Solutions India Pvt. Ltd.

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