

PRODUCT DATA SHEET OF W5000-GTB-MP480/485/490/495/500/505

BI-FACIAL (GTB) PERC M10



SYSTEM & PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / UL 61215 / UL 61730

ISO 9001:2015 QUALITY MANAGEMENT SYSTEM

ISO 14001:2015 ENVIRONMENT MANAGEMENT SYSTEM

ISO 45001:2018 OCCUPATIONAL HEALTH AND SAFETY



W5000-GTB-MP480/485/490/495/500/505

SALIENT FEATURES OF W5000-GTB-MP480/485/490/495/500/505 MODULE



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 25% additional power gain, higher revenue generation and faster ROI.



POSITIVE TOLERANCE

Guaranteed Positive tolerance (0~ 5W) to ensure minimum nominal power output.

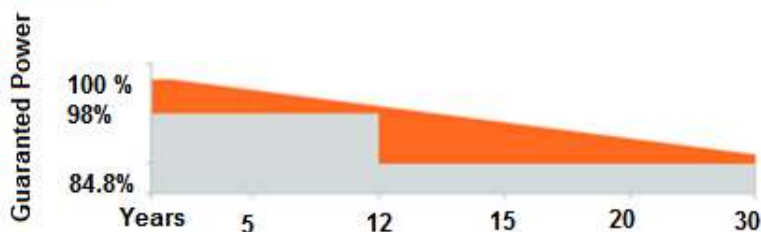


PERFORMANCE WARRANTY



Linear Performance warranty

Standard Performance Warranty



ELECTRICAL SPECIFICATION AT STC

Power (Wp)	480	485	490	495	500	505
Power Tolerance (Wp)	0~+5	0~+5	0~+5	0~+5	0~+5	0~+5
Module Efficiency	20.21%	20.42%	20.63%	20.84%	21.05%	21.26%
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

OPERATING CONDITION

Maximum system voltage(UL&IEC)	1000/1500VDC
Maximum series fuse rating(A)	30A
Limiting reverse current(A)	30A
Operating temperature range(°C)	-40 °C and +85 °C
Maximum static load (snow or wind)	113psf (5400Pa)

MODULE MECHANICAL CHARACTERISTICS

Module dimensions LxWxH(mm)	2094mmx1134mmx40/35mm
Module weight	25Kg (approx.)
Number of cells & size	132cells (182x91) mm(M10)
Frame material	Anodized aluminum frame
Maximum static load(snow or wind)	113psf(5400Pa)

TEMPERATURE COEFFICIENT

Nominal Operating Cell Temperature	45±2 °C
Coefficient of Power(Pmax)	-0.35% /°C
Coefficient of Voltage(Voc)	-0.28% /°C
Coefficient of Current(Isc)	0.048% /°C

BIFACIAL GAIN

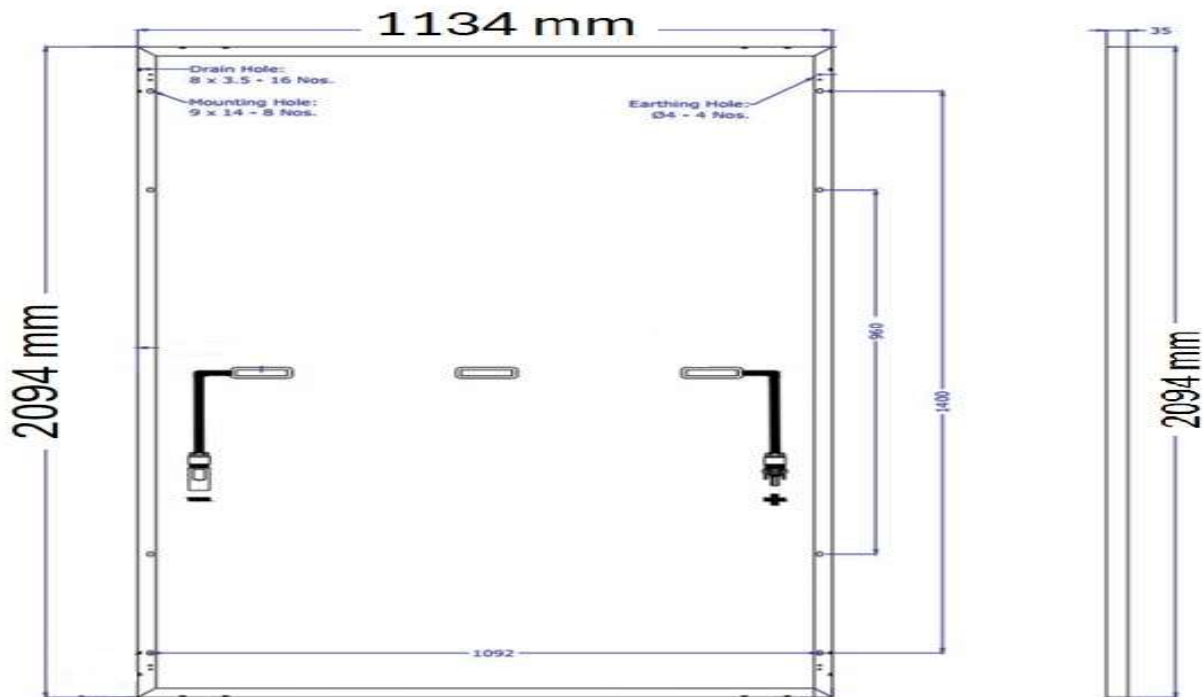
		480	485	490	495	500	505
10%	Power Output (W)	528	534	539	545	550	556
	Module Efficiency (%)	22.23%	22.48%	22.69%	22.95%	23.16%	23.41%
15%	Power Output (W)	552	558	564	569	575	581
	Module Efficiency (%)	23.24%	23.49%	23.75%	23.96%	24.21%	24.46%
20%	Power Output (W)	576	582	588	594	600	606
	Module Efficiency (%)	24.25%	24.50%	24.76%	25.01%	25.26%	25.52%
25%	Power Output (W)	600	606	613	619	625	631
	Module efficiency (%)	25.26%	25.52%	25.81%	26.06%	26.32%	26.57%

** Bifacial gain is dependent on albedo from surface behind the panel

ELECTRICAL SPECIFICATION AT NOCT

Nominal Power (Wp)	480	485	490	495	500	505
Power at NOCT (Wp)	350	357	361	365	368	372
Module Efficiency	14.73%	15.03%	15.20%	15.37%	15.49%	15.66%
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

Engineering Drawings



Packing and shipping Information

Number of modules per Pallet	31Pcs
Number of pallets per 40 ft. container	20Pcs
No. of Panel/40ft	620Pcs