

PRODUCT DATA SHEET OF W5500-GTB-MP495/500/505/510/515/520

BI-FACIAL (GTB) PERC M10

495 -520 W

BIFACIAL MODULE

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



W5500-GTB-MP495/500/505/510/515/520

SALIENT FEATURES OF W5500-GTB-MP495/500/505/510/515/520 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.

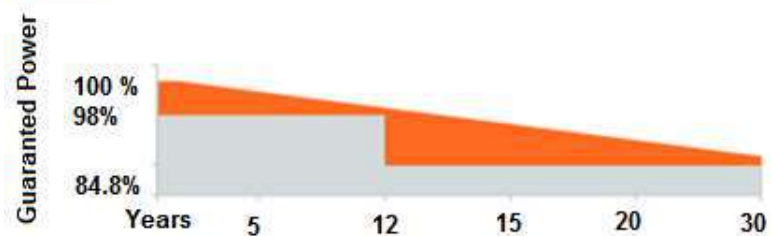


PERFORMANCE WARRANTY



Linear Performance warranty

Standard Performance Warranty



ELECTRICAL SPECIFICATION AT STC

Power (Wp)	495	500	505	510	515	520
Power Tolerance (Wp)	0~+5	0~+5	0~+5	0~+5	0~+5	0~+5
Module Efficiency	19.16%	19.36%	19.55%	19.74%	19.94%	20.13%
Maximum Voltage Vmp (V)	40.02	40.17	40.24	40.39	40.75	40.89
Maximum Current Imp (A)	12.37	12.45	12.55	12.63	12.64	12.72
Open-circuit voltage Voc (V)	47.81	47.95	48.02	48.17	48.53	48.67
Short-circuit current Isc (A)	12.98	13.07	13.12	13.22	13.24	13.32

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)	2278mmx1134mmx40/35mm
Module weight	29Kg (approx.)
Number of cells & size	144cells (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

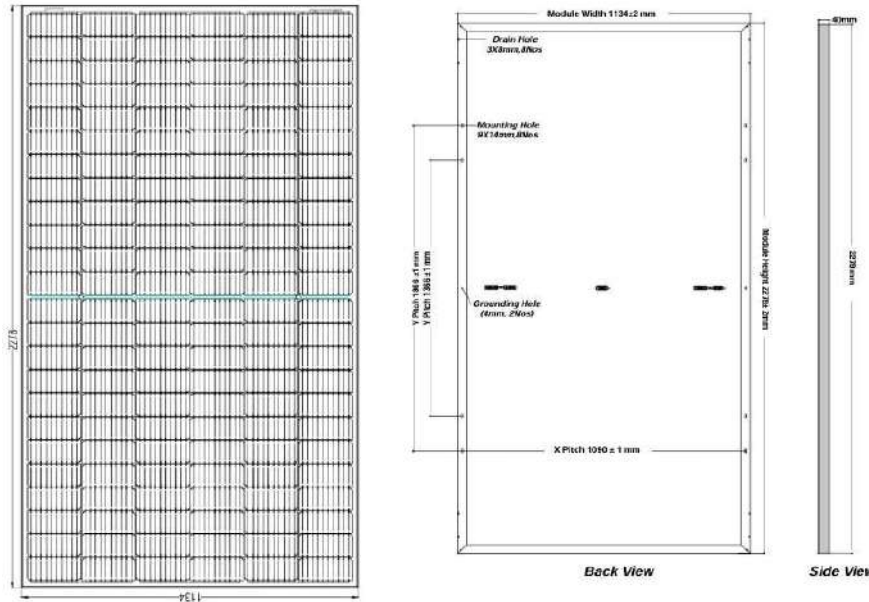
		495	500	505	510	515	520
10%	Power Output (W)	545	550	556	561	567	572
	Module Efficiency (%)	21.09%	21.29%	21.52%	21.71%	21.94%	22.14%
15%	Power Output (W)	569	575	581	587	592	598
	Module Efficiency (%)	22.02%	22.25%	22.49%	22.72%	22.91%	23.14%
20%	Power Output (W)	594	600	606	612	618	624
	Module Efficiency (%)	22.99%	23.22%	23.45%	23.69%	23.92%	24.15%
25%	Power Output (W)	619	625	631	638	644	650
	Module efficiency (%)	23.96%	24.19%	24.42%	24.69%	24.92%	25.16%

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

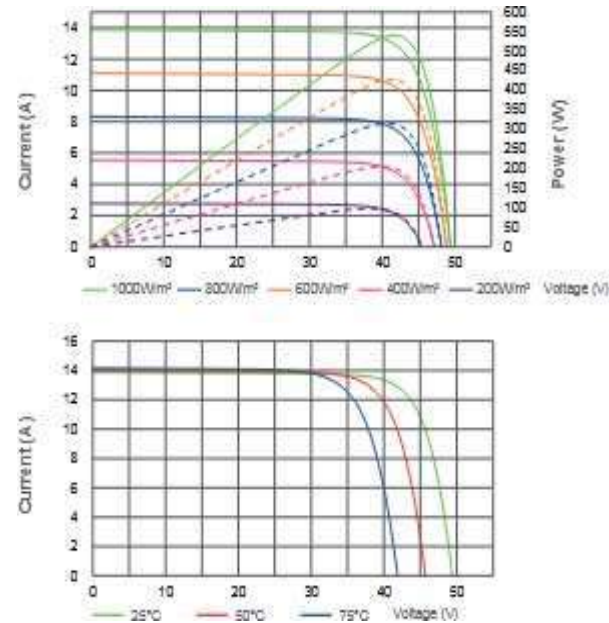
ELECTRICAL SPECIFICATION AT NOCT

Nominal Power (Wp)	495	500	505	510	515	520
Power at NOCT (Wp)	360	367	371	375	377	381
Module Efficiency	13.93%	14.20%	14.36%	14.51%	14.59%	14.74%
Maximum Voltage Vmp (V)	37.23	37.45	37.56	37.77	38.20	38.41
Maximum Current Imp (A)	9.67	9.80	9.88	9.93	9.88	9.92
Open-circuit voltage Voc (V)	44.81	45.20	45.24	45.40	45.75	45.77
Short-circuit current Isc (A)	10.35	10.40	10.44	10.54	10.52	10.60

Engineering Drawings



Electrical Performance & Temperature



Packing and shipping Information

Number of modules per Pallet	27Pcs
Number of pallets per 40 ft. container	20Pcs
No. of Panel/40ft	540Pcs