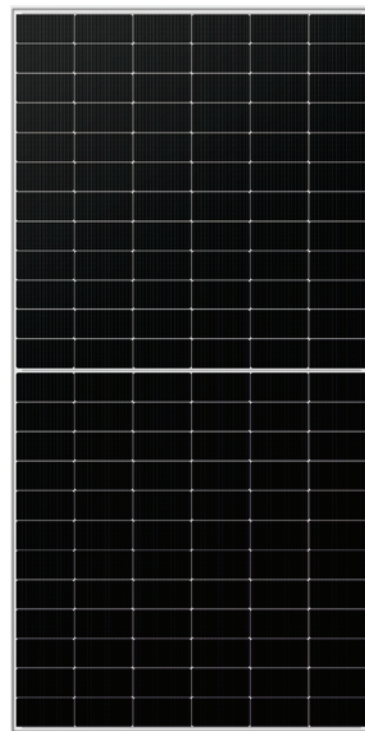




TOPCon BIFACIAL DUAL GLASS M10R

N-TYPE 144 CELL HALF CUT

GTG72HM10XXX = 570-600Wp



**MADE IN
INDIA**

23.23%

MODULE
CONVERSION
EFFICIENCY

15
YEARS

PRODUCT
WARRANTY*

30
YEARS

LINEAR
PERFORMANCE
WARRANTY**

ASSURED
87.40%
POWER
OUTPUT
AT THE END OF
30TH YEAR

KEY FEATURES



Cutting Edge
Manufacturing
Technology



Higher Energy Yield in Hot Conditions
Due to Reduced Power Loss at
Elevated Temperatures



100% String Level
EL and Triple
Stage EL Testing



PID Resistance and Minimized LID and
LeTID by Adopting Advanced Cell
Technology



Excellent Performance
at Dawn, Dusk and
Low Light



Advance MBB Technology Enhances
Redundancy, Minimizes Performance
Loss from Micro Cracks & Ensures
Long-term Durability and Efficiency

QUALITY & RELIABILITY

1

Qualified Premium Quality Raw
Materials

3

IP-68 Junction Box for Long-Term
Weather Endurance

2

Excellent anti-PID performance via
optimized process and materials control

4

Reduces LCOE by optimising balance-of-
system costs and enhancing ROI.

5

Automation with multi-stage EL and digital inspection enables low defect rates and consistent quality.

CERTIFICATIONS

IEC 61730 | IEC 61215 | IEC 62804 | IEC 61701 | IEC 62716 | IEC 62782 | IEC 61853-1 & 2 | LID | LeTID |
IEC 60068 | IEC 62759 | IS 14286 | IS 61730 – 1 & 2 | UL 61730 – 1 & 2



• Manufactured in an ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility.

Technical Data sheet for GTG72HM10XXX -TOPCON Module

Electrical Parameter at STC

Module Type	GTG72HM10XXX							
Peak Power Pmax (Wp)	570	575	580	585	590	595	600	
Open Circuit Voltage Voc (V)	51.69	51.82	51.95	52.08	52.21	52.35	52.48	
Short Circuit Current Isc (A)	13.87	13.93	14.01	14.08	14.16	14.23	14.30	
Maximum Voltage Vmpp (V)	43.09	43.22	43.35	43.48	43.61	43.75	43.88	
Maximum Current Imp (A)	13.23	13.31	13.38	13.46	13.53	13.60	13.68	
Module Efficiency (%)	22.07	22.26	22.45	22.65	22.84	23.03	23.23	

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

Electrical Parameters at BNPI

Module Type	GTG72HM10XXX							
Maximum Power - Pmax (Wp)	627	633	638	644	649	655	660	
Maximum Power Current - Imp (A)	14.55	14.64	14.72	14.81	14.88	14.96	14.05	
Maximum Power Voltage - Vmp (V)	43.09	43.22	43.35	43.48	43.61	43.75	43.88	
Short-Circuit Current - Isc (A)	15.25	15.32	15.41	15.48	15.57	15.65	15.73	
Open - Circuit Voltage - Voc (V)	51.69	51.82	51.95	52.08	52.21	52.35	52.48	

For STC and BNPI, Pmax tolerance is ±3%.

For STC and BNPI, Voc, Isc & BSI - Isc tolerance is ±5%.

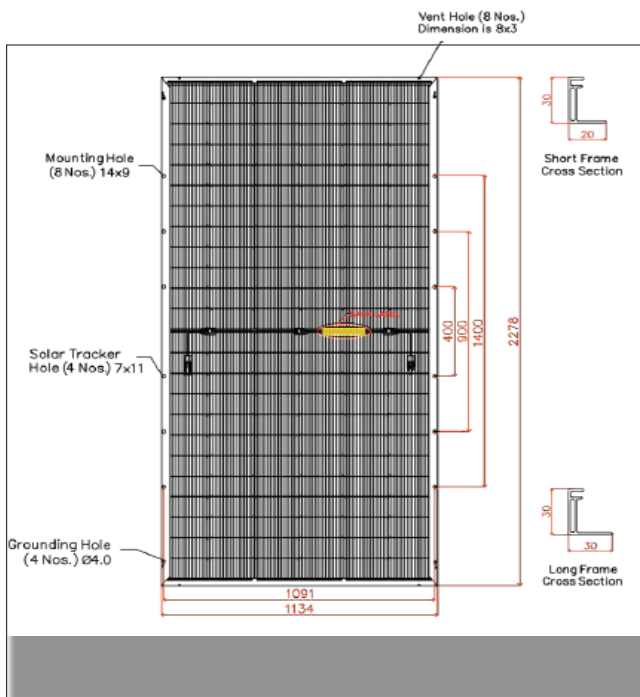
Measurement uncertainty ±3%.

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

Electrical Parameters | NOCT³

Peak Power Pmax (Wp)	427	431	434	438	442	446	450
Maximum Current Imp (A)	10.66	10.72	10.78	10.84	10.90	10.96	11.02
Maximum Voltage Vmpp (V)	40.07	40.19	40.32	40.44	40.56	40.69	40.81
Short Circuit Current Isc (A)	11.23	11.28	11.35	11.40	11.47	11.53	11.58
Open Circuit Voltage Voc (V)	49.11	49.23	49.35	49.48	49.60	49.73	49.86

Drawing (Measurements are in mm)



All measurements are in mm

Mechanical Tolerance for ≤40mm is ±0.5mm

Mechanical Tolerance for >40mm is ±1mm

Temperature Coefficient (TC) Permissible Operating Condition

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NOCT	47± 2°C
Bifaciality	80 ± 5%
Temperature Coefficient (β)	-0.18 % /°C
Temperature Coefficient (α)	0.035 % /°C
Temperature Coefficient (γ)	-0.27 % /°C

Packing Configuration Export Market

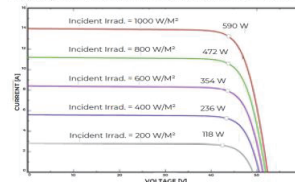
Container	20'FT	32'FT	40'FT
Quantity /Pallet	36	36	36
Pallets/Container	8	16	20
Quantity/Container	288	576	720

Mechanical Specification

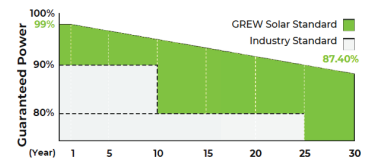
Specification	Details
Solar cells	72 (144 half-cells) N-TYPE bifacial solar cells
Superstrate	2.0 mm (0.098 inches) high transmission ARC Semi-tempered glass (low iron content)
Encapsulation	Ultra - Clear PID Free
Substrate	2.0 mm (0.098 inches) high transmission heat strengthened glass/ mesh glass# *(low iron content)
Frame	Anodized Aluminium Alloy (Silver Color)
Dimensions	2278 X 1134 X 30 mm (89.68 x 44.65 x 1.18 inches)
Weight	~33kg ±3%
J-Box	IP 68, Split Junction Box with individual bypass diodes
Cable	Solar Cable 4mm ² 900/1400
Connectors	MC4-Compatible Connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 38)
Surface load	Snow Load - 5400 Pa Wind Load - 2400 Pa
Maximum Series Fuse Rating	30 A

IV Curve

Cells temp: 25°C PV Module: GREW ENERGY PRIVATE LIMITED, GTG72HM10



Linear Performance Warranty



*Warranty claims are applicable as per GEPL's manual guidelines.

**Linear Power Warranty for 30 years with 1% for 1st year degradation and 0.4% from year 2 to year 30.

When unpacking and installing this product, it is crucial to diligently consult the guidelines outlined in the company manual. Doing so will enable you to handle and install the product accurately and mitigate any potential risk of damage.

Ensure proper disposal of the product as E-waste when it reaches the end of its operational lifespan, to safeguard the environment.

GREW
solar

info@thegrewsolar.com

www.thegrewsolar.com