

TOPCON BIFACIAL DUAL GLASS

N-TYPE 144 CELL HALF CUT

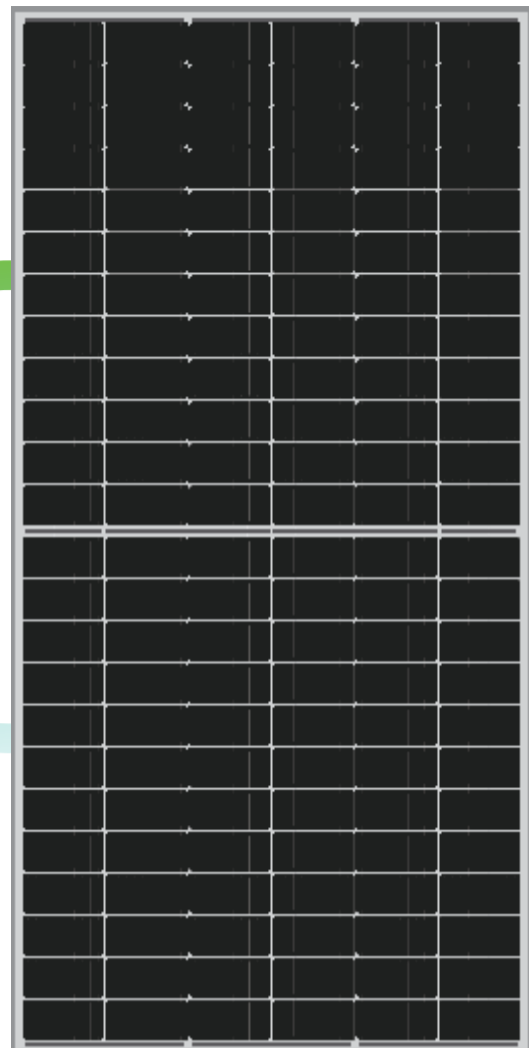
GTG72HM10XXX - 565 to 590WP

30 YEARS LINEAR PERFORMANCE WARRANTY*

15 YEARS PRODUCT WARRANTY**

22.85% MODULE CONVERSION EFFICIENCY

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



MADE IN INDIA

KEY FEATURES



Cutting Edge Manufacturing Technology



Excellent Performance at Dawn, Dusk and Low Light



100% String Level EL and Triple Stage EL Testing



Positive Tolerance @ 0~5W



PID resistance by adopting advanced cell technology and qualified Raw Materials



Better Shading Performance

QUALITY & RELIABILITY

1 Qualified Premium Quality Raw Materials

3 IP-68 Junction Box for long-term weather endurance

2 Inhouse Laboratory Checks at multiple stages

4 Suitable for 1500 VDC

CERTIFICATIONS



IEC 61730 | IEC 61215 | IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 61726 (Ammonia) | IEC 62782 | IEC 61853-1 & 2 (PAN file) | LID, LeTID | IEC 60068 (Sand & Dust) | IEC 62759 (Transportation)



IS 14286
IS 61730 - 1 & 2



UL 61730 - 1 & 2
UL 61703



ISO 9001, ISO 14001
ISO 45001



ALMM
CE

R 84004332

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

Technical Data for GTG72HM10XXX - TOPCON Module

Electrical Parameter at STC						
Module Type	GTG72HM10XXX					
Capacity rating – Pmax (Wp**)	565	570	575	580	585	590
Power Tolerance (Wp)	0-4.99W	0-4.99W	0-4.99W	0-4.99W	0-4.99W	0-4.99W
Open circuit voltage - Voc(V)	51.82	51.99	52.15	52.31	52.47	52.63
Short circuit current - Isc(A)	13.82	13.89	13.95	14.01	14.07	14.13
Rated voltage - Vmp(V)	42.81	42.99	43.17	43.35	43.53	43.71
Rated current - Imp(A)	13.20	13.26	13.32	13.38	13.44	13.50
Module efficiency (%)	21.88	22.07	22.26	22.45	22.65	22.85
NOCT	P (Wp**) 441	445	449	452	456	460

Temperature Coefficient (TC)	
Temperature Coefficient (Voc)	-0.19% /°C
Temperature Coefficient (Isc)	0.035% /°C
Temperature Coefficient (Pmax)	-0.29% /°C

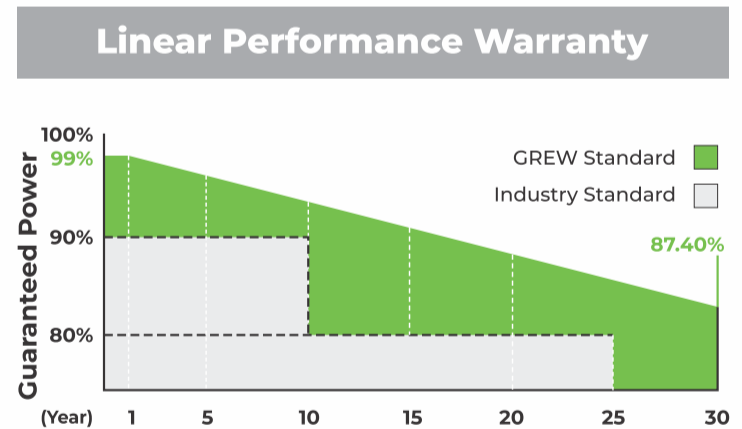
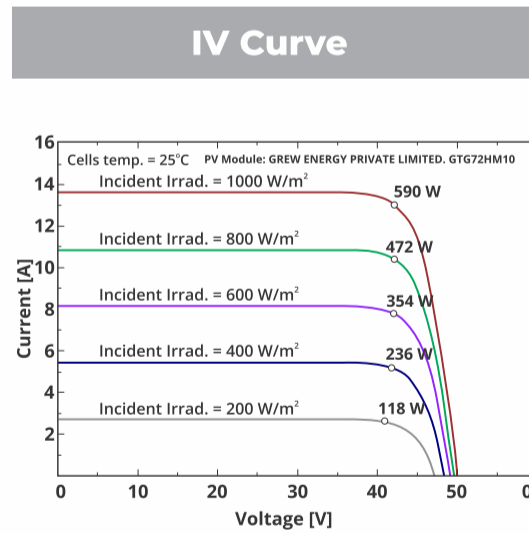
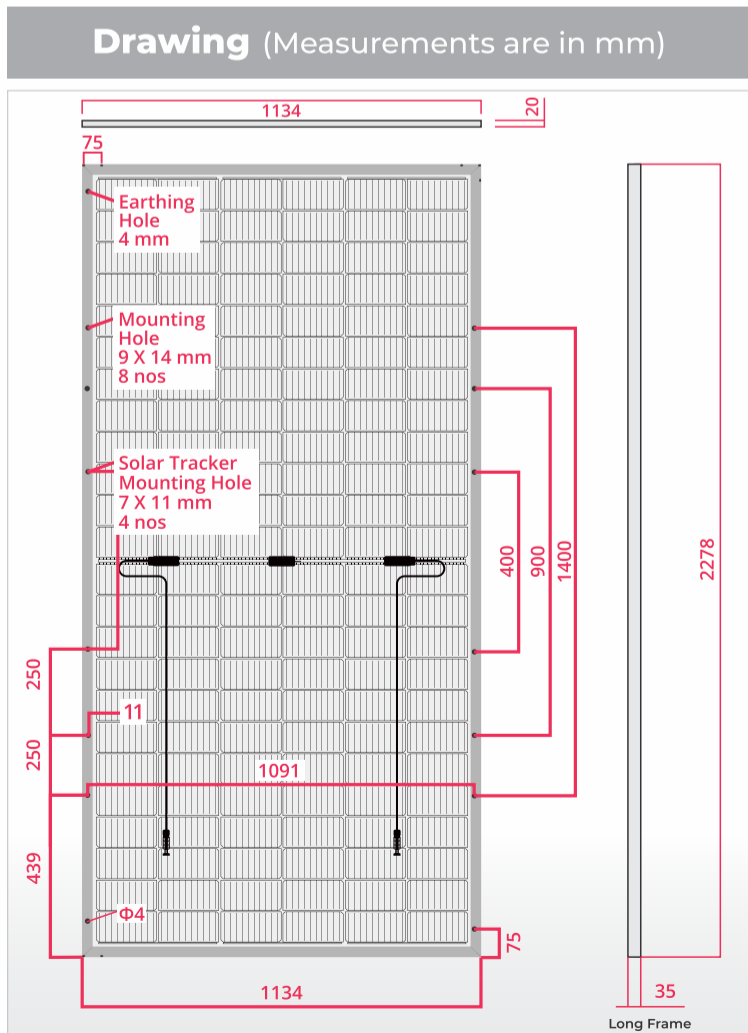
Packing Configuration Export Market			
Container	20'FT	32'FT	40'FT
Modules per Pallet	31	31	31
Pallets per Container	8	16	20
Modules per Container	248	496	620

Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%. **NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Electrical Parameters with Rear Side Power Gain Chart					
590 WP	STC	10%	15%	20%	25%
Peak Power, (0~+4.99 Wp) Pmax(Wp)	590	650	680	710	740
Maximum Voltage, Vmpp (V)	43.71	43.88	43.97	44.06	44.10
Maximum Current, Imp (A)	13.5	14.82	15.46	16.11	16.78
Open Circuit Voltage, Voc (V)	52.63	52.63	52.63	52.63	52.63
Short Circuit Current, Isc (A)	14.13	14.70	14.84	14.98	15.12
Module Efficiency (%)	22.84	25.17	26.31	27.48	28.64

Mechanical Specification	
Specification	Details
Solar cells	n-Type Bifacial TOPCON, MBB, 144 Half-Cut
Front glass	2 mm, High Transmission, ARC Tempered Glass
Encapsulation	Ultra - clear PID free
Backside	2mm High Transmission Mesh Pattern Glass
Frame	Anodized Aluminium Alloy
Dimensions	(L) 2278 mm x (W) 1134 mm x (H) 35 mm
Weight	~33 kg±3%
J-box	IP 68 certified, 3 Diodes
Cable	Solar cable 4mm ² , "400mm, can be Customization option."
Connectors	MC4-compatible connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	(Snow load 5400 Pa, wind load 2400 Pa).

Permissible Operating Conditions	
Temperature range	-40°C to + 85°C
Maximum system voltage	1500/1000 VDC
NOCT	47± 2°C
Hail resistance	Maximum diameter of 25 mm with velocity 23 m/s
Bifaciality	80 ± 5%



- Ensure proper disposal of the product as E-waste when it reaches the end of its operational lifespan to safeguard the environment.
- 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 mitigating any potential risks of damage.

