

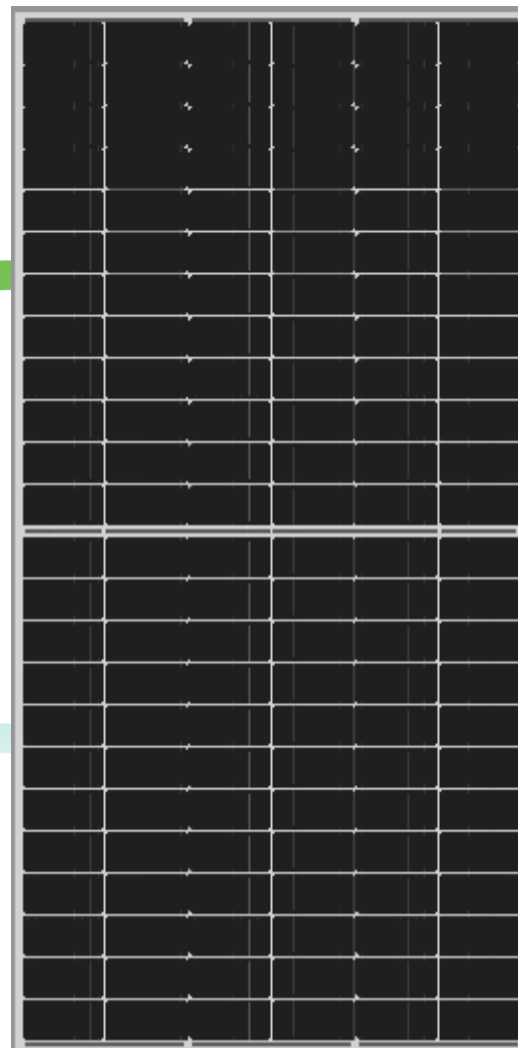


A CHIRIPAL GROUP VENTURE

# TOPCON BIFACIAL DUAL GLASS

N-TYPE 132 CELL HALF CUT

GTG12R66HMXXX - 610 to 635WP



MADE IN INDIA

30 YEARS

LINEAR PERFORMANCE WARRANTY\*

15 YEARS

PRODUCT WARRANTY\*\*

23.51%

MODULE CONVERSION EFFICIENCY

ASSURED **87.40% POWER OUTPUT** AT THE END OF **30<sup>TH</sup> YEAR**

## 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 ALMM | CE CE

R 84004332

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

# Technical Data for GTG12R66HM10XXX - TOPCON Module

Electrical Parameter at STC						
Module Type	GTG12R66HM10XXX					
Capacity rating – Pmax (Wp**)	610	615	620	625	630	635
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)	51.62	51.82	52.02	52.22	52.42	52.62
Short circuit current - Isc(A)	14.75	14.87	14.99	15.11	15.35	15.47
Rated voltage - Vmp(V)	42.45	42.58	42.71	42.84	42.96	43.10
Rated current - Imp(A)	14.38	14.45	14.52	14.59	14.67	14.74
Module efficiency (%)	22.62	22.80	22.98	23.16	23.35	23.54
NOCT	P (Wp**) 560	565	570	575	580	584

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

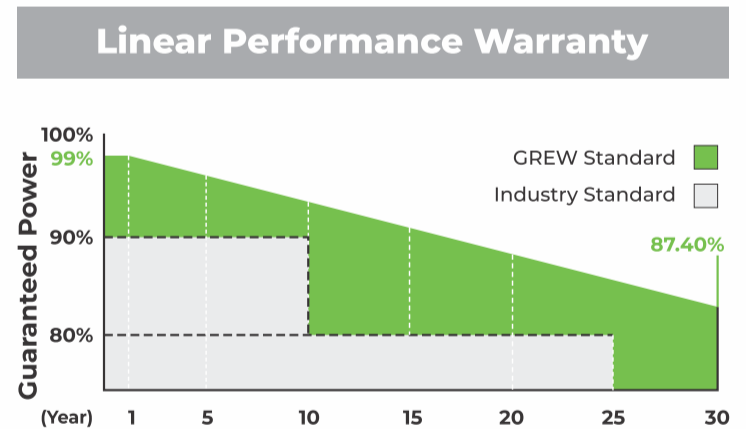
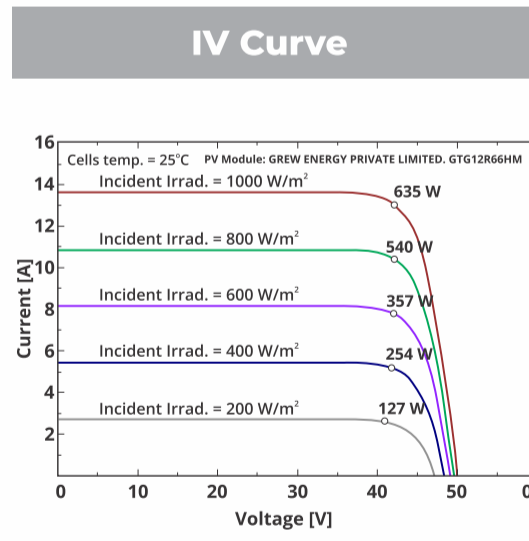
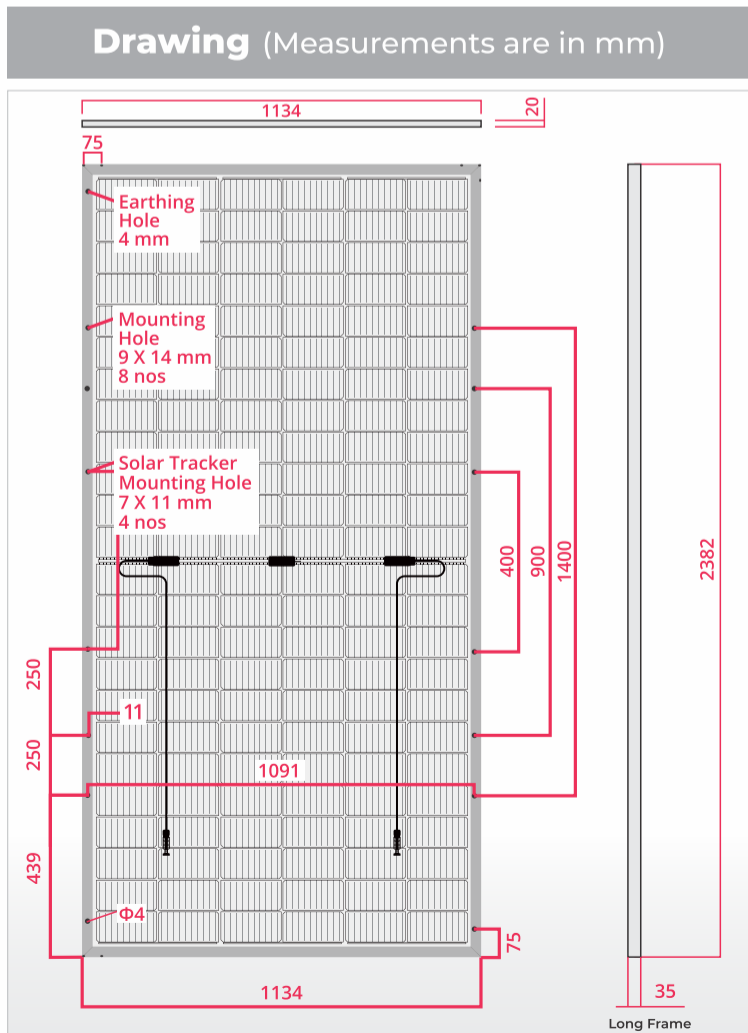
Packing Configuration Export Market	
Container	40'FT
Modules per Pallet	31
Pallets per Container	20
Modules per Container	620

Under Standard Test Conditions (STC) of irradiance 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%. \*\*NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec

Electrical Parameters with Rear Side Power Gain Chart					
610 WP	STC	10%	15%	20%	25%
Maximum Power (Pmax) (W)	610	671	702	732	763
Open - Circuit Voltage (Voc) (v)	51.62	51.64	51.64	51.66	51.66
Maximum Power Voltage (Vmp) (v)	42.45	42.45	42.45	42.47	42.47
Short-Circuit Current (Isc)(A)	14.75	16.57	17.35	18.13	18.91
Maximum Power Current (Imp) (A)	14.38	15.31	16.54	17.24	17.97

Permissible Operating Conditions	
Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NOCT	45± 2°C
Hail resistance	Maximum diameter of 25 mm with velocity 23 m/s
Bifaciality	80 ± 5%

Mechanical Specification	
Specification	Details
Solar cells	n-Type Bifacial TOPCON, MBB, 132 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 (Silver Color)
Dimensions	(L) 2382 mm x (W) 1134 mm x (H) 35 mm
Weight	~33 kg±3%
J-box	IP 68 certified, 3 Diodes
Cable	Solar cable 4mm <sup>2</sup> , "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).



- 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.



\* All Measurements are in mm Mechanical Tolerance 0±2mm  
 \*Linear Performance Warranty with 1% degradation in the 1<sup>st</sup> year, and only 0.4% from year 2 to 30.  
 \*\*Warranty claims applicable as per GEPL's manual guidelines