

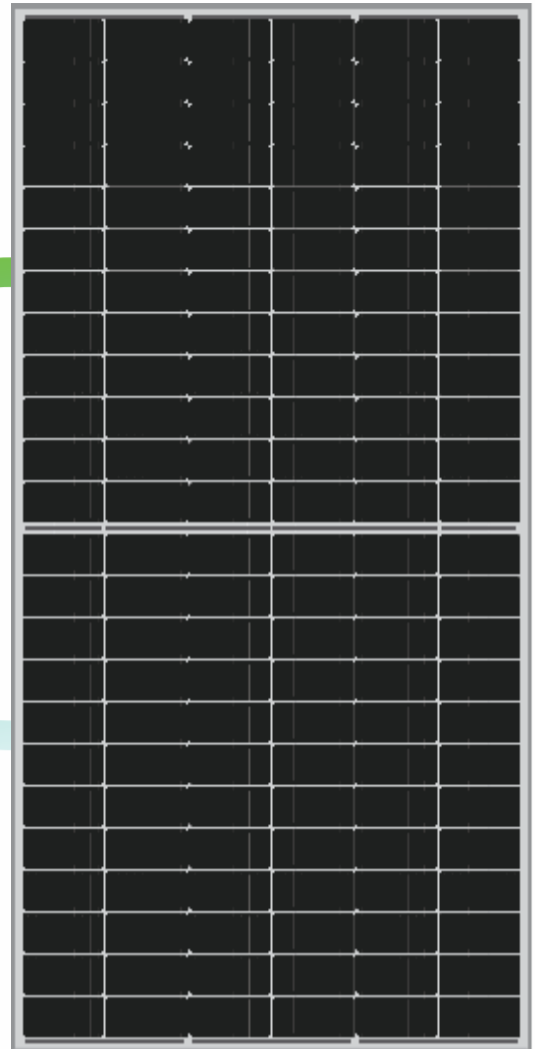


A CHIRIPAL GROUP VENTURE

MONO-PERC BIFACIAL DUAL GLASS

P-TYPE 144 CELL HALF CUT

GMG72HM10XXX - 520 to 550WP



MADE IN
INDIA

30
YEARS

LINEAR
PERFORMANCE
WARRANTY*

15
YEARS

PRODUCT
WARRANTY**

21.29%

MODULE
CONVERSION
EFFICIENCY

ASSURED
82%
POWER
OUTPUT
AT THE END OF
30TH YEAR

KEY FEATURES



Cutting Edge
Manufacturing
Technology



Excellent Performance
@ Dawn, Dusk and
Low Light



100% individual 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

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 GMG72HM10XXX Mono-PERC BIFACIAL Module

Electrical Parameter at STC		GMG72HM10XXX						
Module Type		GMG72HM10XXX						
Capacity rating – Pmax (Wp)**		520	525	530	535	540	545	550
Power Tolerance (Wp)		0+4.99	0+4.99	0+4.99	0+4.99	0+4.99	0+4.99	0+4.99
Open circuit voltage - Voc(V)		48.91	49.09	49.27	49.45	49.63	49.81	49.99
Short circuit current - Isc(A)		13.44	13.50	13.56	13.62	13.68	13.74	13.8
Rated voltage - Vmp(V)		41.56	41.74	41.92	42.10	42.28	42.46	42.64
Rated current - Imp(A)		12.52	12.58	12.65	12.70	12.78	12.84	12.9
Module efficiency (%)		20.14	20.33	20.53	20.70	20.92	21.10	21.29
NOCT	P (Wp)**	409	413	417	421	405	425	431

Temperature Coefficient (TC)	
Temperature Coefficient (Voc)	-0.36% /°C
Temperature Coefficient (Isc)	0.07% /°C
Temperature Coefficient (Pmax)	-0.36% /°C

Packing Configuration			
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%.

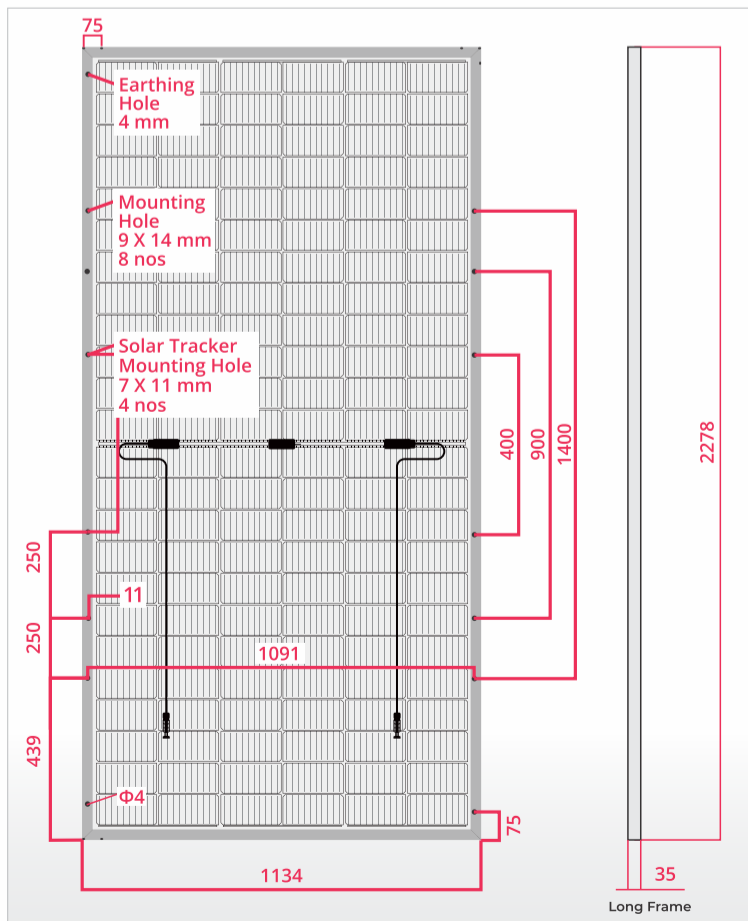
**NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Electrical Parameters with Rear Side Power Gain Chart					
550 WP	STC	10%	15%	20%	25%
Peak Power, (0~+4.99 Wp) Pmax(Wp)	550	605	632	660	687
Maximum Voltage, Vmpp (V)	42.64	42.64	42.64	42.65	42.65
Maximum Current, Imp (A)	12.9	14.18	14.8	15.48	16.1
Open Circuit Voltage, Voc (V)	49.99	49.99	49.99	49.99	49.99
Short Circuit Current, Isc (A)	13.8	15.19	15.84	16.65	17.19
Module Efficiency (%)	21.29	23.42	24.47	25.55	26.59

Permissible Operating Conditions	
Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NOCT	44± 2°C
Hail resistance	Maximum diameter of 25 mm with velocity 23 m/s

Mechanical Specification	
Specification	Details
Solar cells	MONO-PERC BIFACIAL, MBB, 144 Half-Cut
Front Glass	2 mm, High Transmission, ARC Tempered Glass
Encapsulation	Ultra - clear PID free
Backside	2 mm, High Transmission Mesh Pattern Glass
Frame	Anodized Aluminium Alloy
Dimensions	(L) 2278 mm x (W) 1134 mm x (H) 35 mm
Weight	~33±3% kg
J-box	IP 68 certified, 3 Diodes
Cable	Solar cable 4mm ² , "400mm default length can be customized"
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).

Drawing (Measurements are in mm)

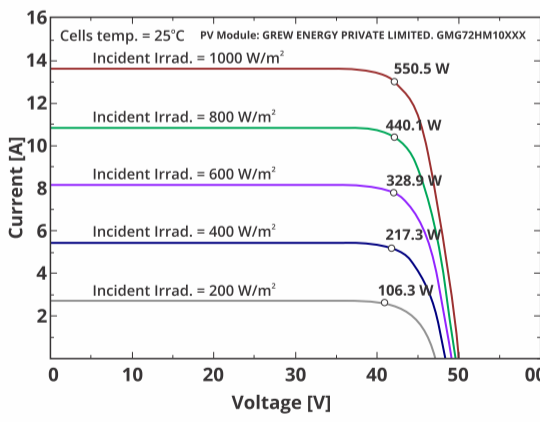


All Measurements are in mm Mechanical Tolerance 0±2mm

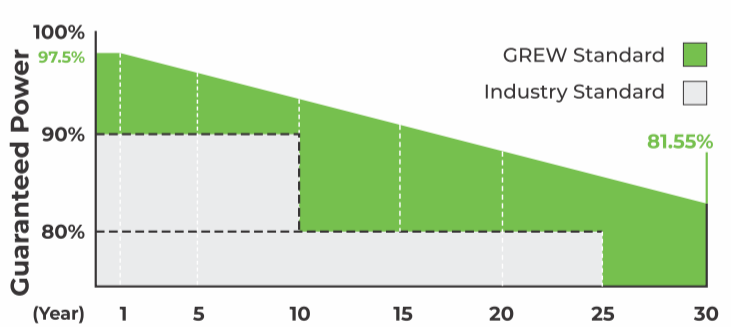
*Linear Performance Warranty with 2.5% degradation in the 1st year, and only 0.55% from year 2 to 30.

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

IV Curve



Linear Performance Warranty



- 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.

