



AMERICAN LED. GLOBALLY PERFECTED.

MANUFACTURING A UNITED FUTURE

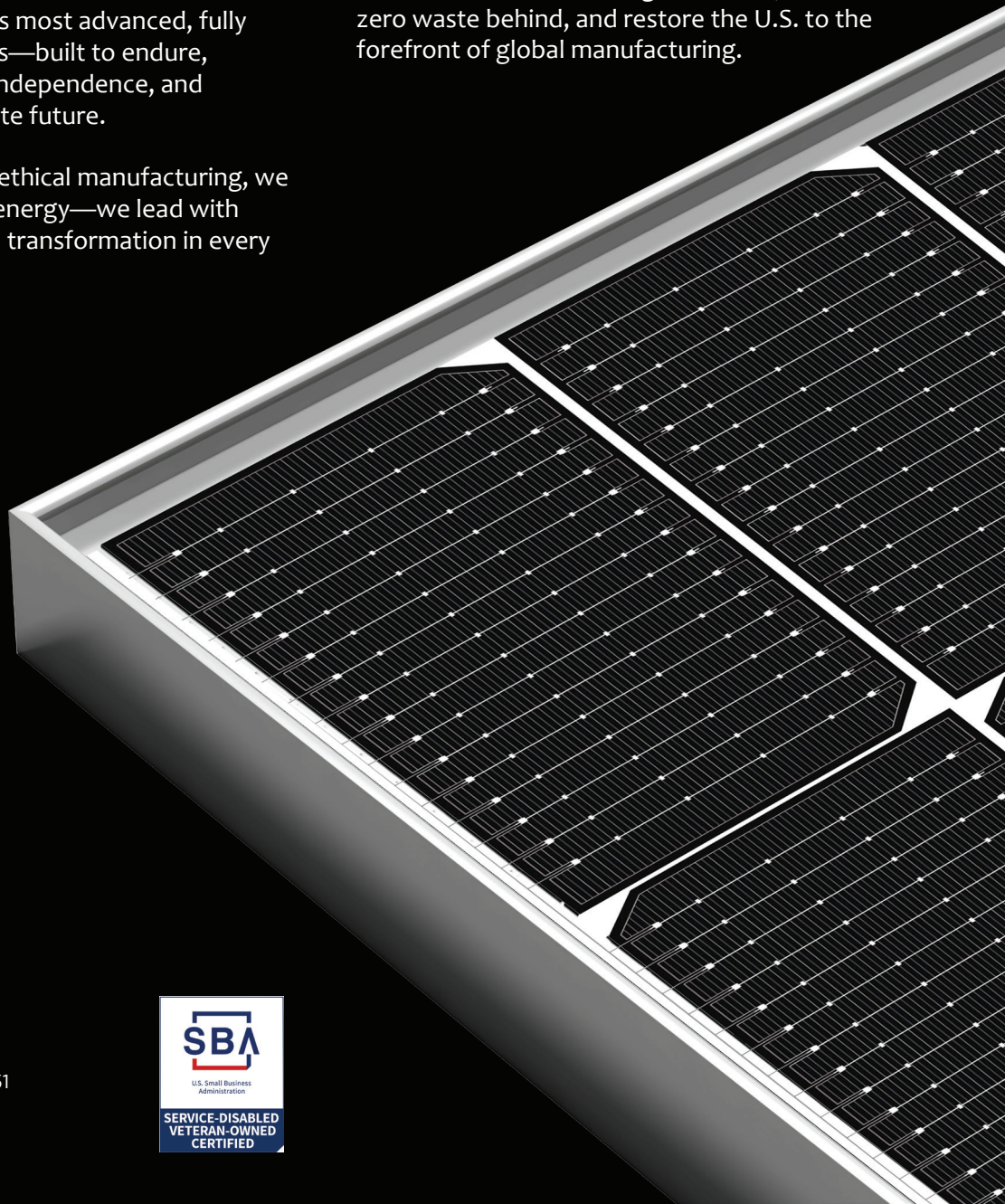
Mission

At Solarix, we power a brighter tomorrow through integrity, American-made excellence, and deep commitment to our communities. We manufacture the world's most advanced, fully recyclable solar modules—built to endure, engineered for energy independence, and designed for a zero-waste future.


As the gold standard in ethical manufacturing, we don't just deliver clean energy—we lead with trust, transparency, and transformation in every watt we produce.


Vision

To lead a clean energy revolution rooted in American resilience—delivering solar solutions that endure for generations, leave zero waste behind, and restore the U.S. to the forefront of global manufacturing.

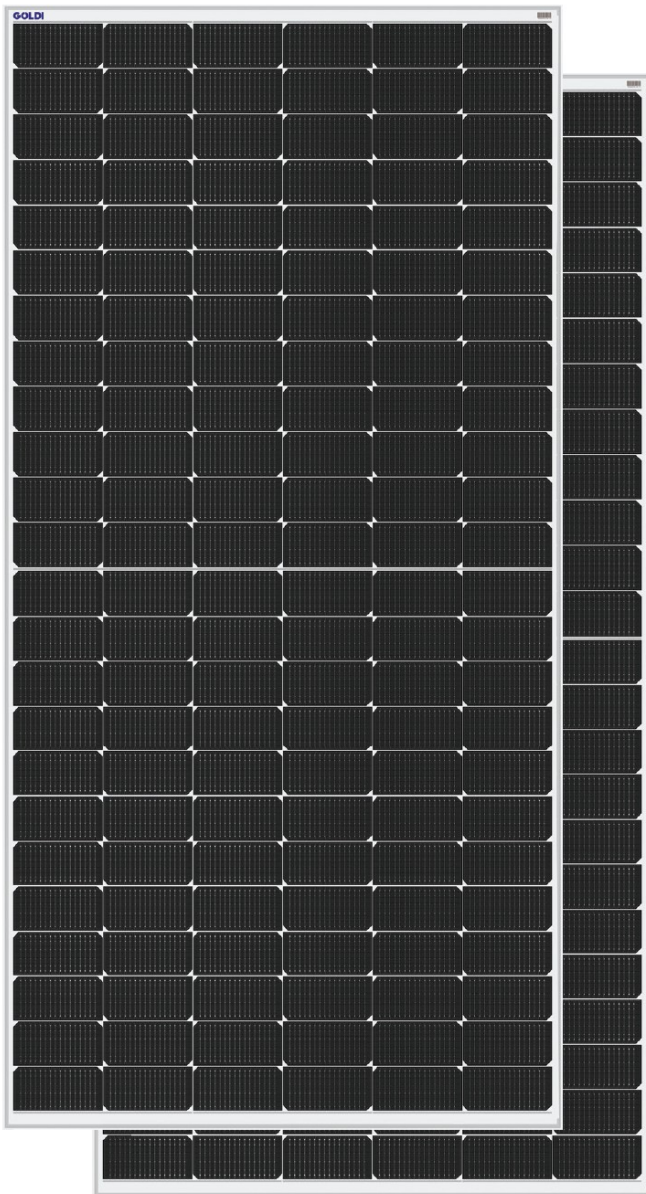


 **Solarix Group**
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610Wp - 640Wp



High Saving Lower LCOE, reduced BOS cost, shorter payback time.



High Efficiency
Excellent module conversion efficiency of up to 23.03%



Superior Low-Light Performance
Optimized to deliver high power output even in low-irradiance conditions such as cloudy, foggy, or early morning environments.



Minimal Light-Induced Degradation (LID)
Engineered with advanced N-type cell technology to significantly reduce both LID and LeTID, ensuring long-term performance stability and reliability.



Exceptional PID Resistance
Built to prevent potential-induced degradation (PID), ensuring minimal power loss and consistent performance across large-scale installations.



Increased Energy Yield (10–30%)
Bifacial design and high-efficiency cell technology enable greater energy generation versus conventional mono-facial modules under optimal conditions.



Versatile Deployment Capabilities
Optimized for BIPV, vertical installations, and extreme conditions including snowfields, high humidity, coastal zones, and high-wind or dust-prone areas. Certified for 5400 Pa front load and 2400 Pa back load (±5%) for exceptional durability.



Designed & Engineered in the U.S, Globally Sourced.
Geopolitically Compliant.

Certifications:



Intertek



UL 61730 / IEC 61730 / IEC 61215

Headquarter address:

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INDUSTRY LEADING PROTECTION:



TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS12R-T132-GF					
Capacity rating - Pmax(Wp)	615	620	625	630	635	640
PowerTolerance (%)	0-2					
Module efficiency (%)	22.75	22.93	23.12	23.30	23.49	23.67
Rated voltage - Vmp(V)	40.90	41.10	41.30	41.50	41.70	41.90
Rated current - Imp(A)	15.04	15.09	15.14	15.19	15.23	15.28
Open circuit voltage - Voc(V)	49.30	49.60	49.90	50.20	50.50	50.80
Short circuit current - Isc(A)	15.89	15.92	15.95	15.98	16.01	16.04

Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and Module temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%.

ELECTRICAL CHARACTERISTICS WITH 10% REAR SIDE POWER GAIN#

Capacity rating - Pmax(Wp)	676	682	687	693	698	704
Rated voltage - Vmp(V)	40.90	41.10	41.30	41.50	41.70	41.90
Rated current - Imp(A)	16.54	16.60	16.65	16.71	16.75	16.81
Open circuit voltage - Voc(V)	49.30	49.60	49.90	50.20	50.50	50.80
Short circuit current - Isc(A)	17.48	17.51	17.55	17.58	17.61	17.64

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 80 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

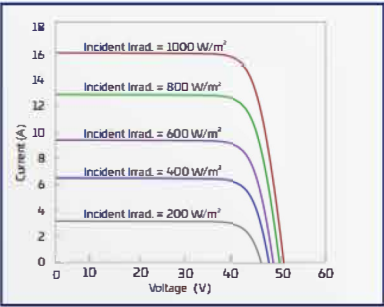
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax)	-0.30% /°C

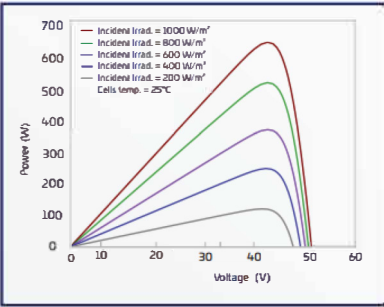
PACKAGING CONFIGURATION##

Number of Modules per Pallet	36
No of pallet	20
No of module, 40ft HC container	720

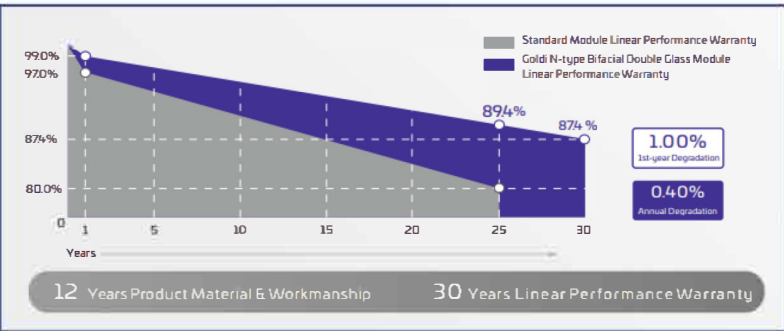
IVCURVE



PV CURVE



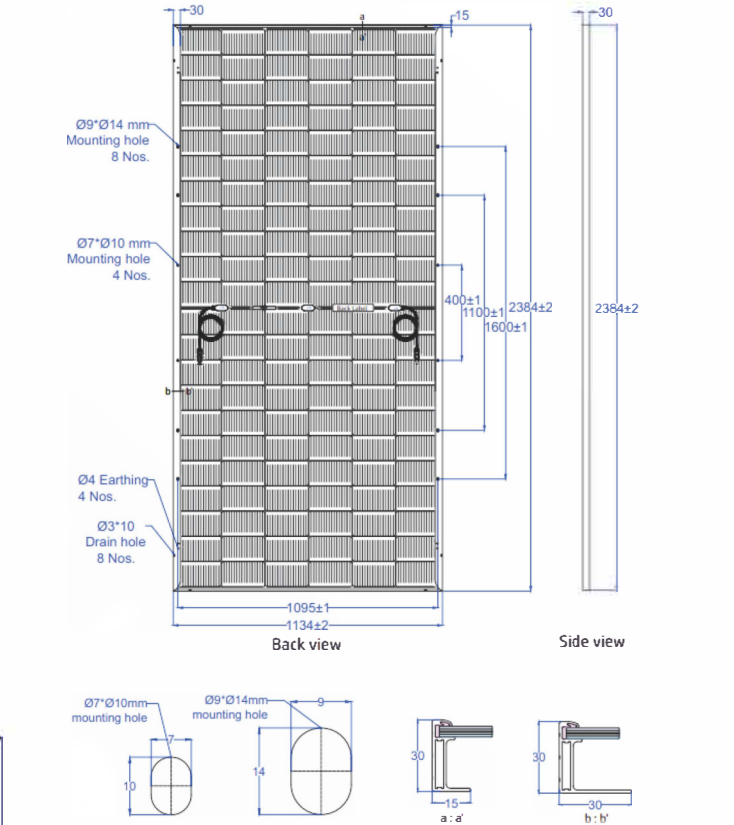
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	132 pcs TOPCon cell technology, Multi BB(210mmx182.2mm)
Encapsulation	PID & UV resistance
Frame	SilverAnodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 2384 mm x (W) 1134 mm x (H) 30 mm"
Weight	~33.7 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	30 A
Cable	4 mm ² , Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
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)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL | INSTITUTIONAL

- Due to constant product improvements, Solarix reserves the right to amend the above specifications with proper notice
- Images in the datasheet are for representation purpose only

