GOLDI SOLAR | SOLARIX

AMERICAN LED.
GLOBALLY PERFECTED.

MANUFACTURING A UNITED FUTURE

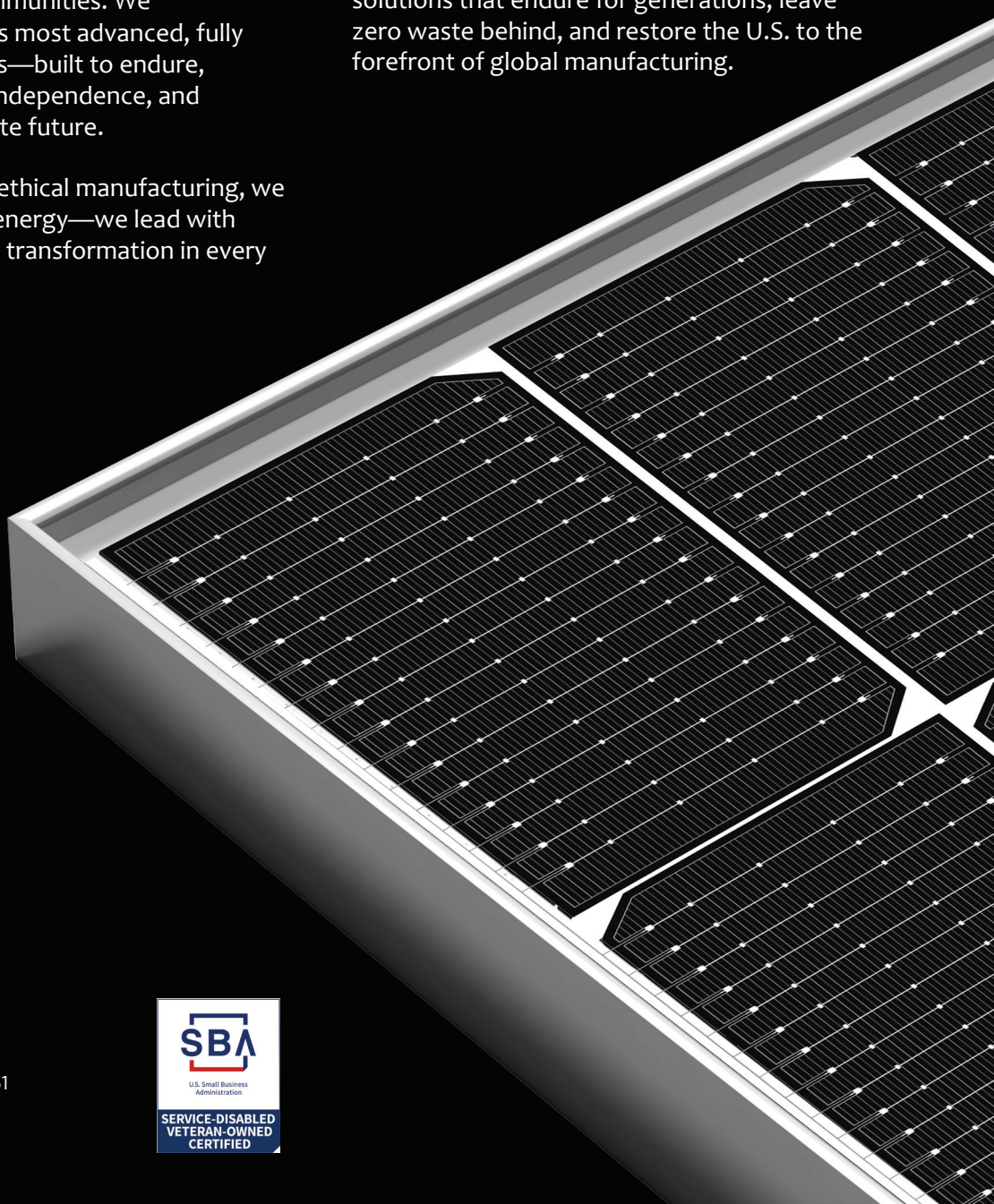
Mission

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.



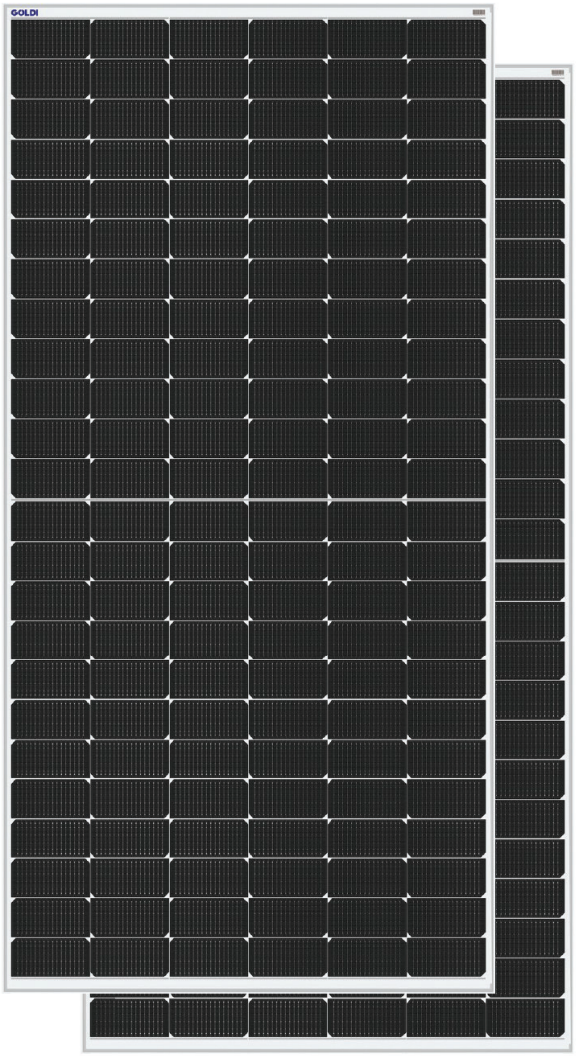
Solarix Group
2150 Perrowville Rd Forest VA 24551
info@solarix.group
www.solarix.group

SBA U.S. Small Business Administration
SERVICE-DISABLED VETERAN-OWNED CERTIFIED

GOLDI SOLAR | SOLARIX

BUILT TO OUTPERFORM

565Wp - 595Wp



- **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:

ETL LISTED | DEKRA certified

UL 61730 / IEC 61730-1 / IEC 61215

12 YEARS MATERIAL & PROCESSING

30 YEARS PERFORMANCE WARRANTY

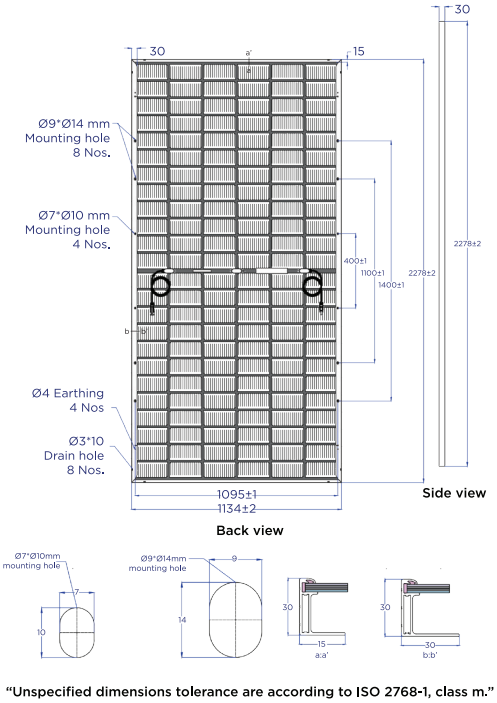
Headquarter address:

Solarix Group
2150 Perrowville Rd Forest VA 24551
info@solarix.com
www.solarix.group

SBA U.S. Small Business Administration
SERVICE-DISABLED VETERAN-OWNED CERTIFIED

MECHANICAL SPECIFICATIONS

Cell Type	N-Type Monocrystalline
Weight	31.5kg
Dimension	2278x1134x30mm (L x W x T)
Cables	4 mm2 , Solar Cable 400mm/1400mm length or Customized length
No. of Cells	144 (72x2)
Front Glass	2.0 mm, High Transmission, AR Coated, Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass, High Transmission, AR Coated
Junction Box	IP68 certified, 3 Bypass Diodes.
Packing	36 pcs/pallet, 720 pcs/ 40 HQ
Connector Type	MC4 / MC4 compatible / Staubli Electrical connectors
Encapsulation	PID & UV resistance
Frame	Anodized Aluminium Alloy



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

ELECTRICAL SPECIFICATIONS

Electrical Parameter at STC	Bifacial Monocrystalline Module						
Module Type	MGS -N						
Capacity rating – Pmax(Wp)	565W72H	570W72H	575W72H	580W72H	585W72H	590W72H	595W72H
Power Tolerance (%) Module	0~2						
efficiency (%) Rated voltage	21.88	22.07	22.26	22.45	22.64	22.83	23.03
Vmp(V) Rated current	42.60	42.80	43.00	43.20	43.40	43.60	43.80
Imp(A) Open circuit voltage	13.27	13.32	13.37	13.42	13.47	13.52	13.57
Voc(V)	50.88	51.08	51.28	51.48	51.68	51.88	52.08
Short circuit current - Isc(A)	14.18	14.24	14.30	14.36	14.42	14.48	14.54

Under Standard Test Conditions (STC) of irradiance 1000 W/m^2, spectrum AM 1.5 and Module temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%.

Electrical Specification with 10% rear side power gain#

Capacity rating – Pmax(Wp)	621	627	633	638	644	649	655
Rated voltage - Vmp(V) Rated	42.60	42.80	43.01	43.22	43.40	43.60	43.80
Current - Imp(A)	14.59	14.65	14.71	14.76	14.82	14.87	14.93
Open circuit voltage - Voc(V)	50.88	51.08	51.28	51.48	51.68	51.88	52.08
Short circuit current - Isc(A)	15.59	15.66	15.73	15.80	15.86	15.93	15.99

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 %

MAXIMUM RATINGS

Maximum system Voltage	1500V DC
Operating Temperature	- 40°C to 85°C
Maximum Series Fuse	30A
Electrical Safety	Class II
Fire Rating	Class C (Type 1)
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s
NOCT Temperature	45°C±2°C

TEMPERATURE CHARACTERISTICS

Temperature Coefficient (Pmax)	-0.30% /°C
Temperature Coefficient (Voc)	-0.25 %/°C
Temperature Coefficient (Isc)	0.45%/°C

PERFORMANCE WARRANTY

Max Power Degradation 0.5%/Year

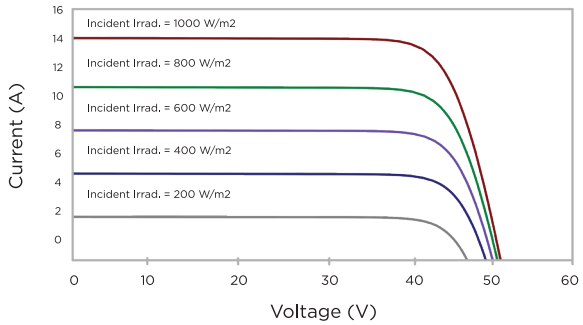
97.5% At The End of 1st Year

93% At The End of 10th Year

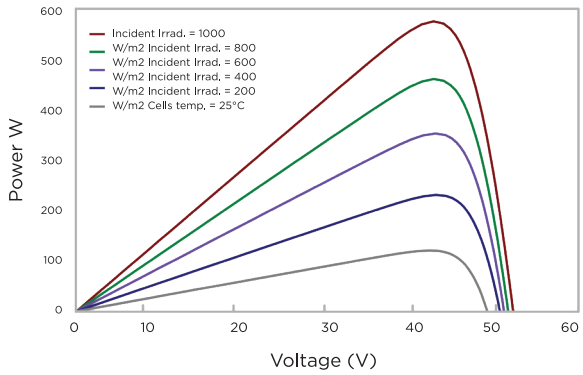
85.5% At The End of 30th Year

Specifications included in the datasheet are subject to change without notice

CURVE & TEMPERATURE DEPENDENCE



IV CURVE



PV CURVE