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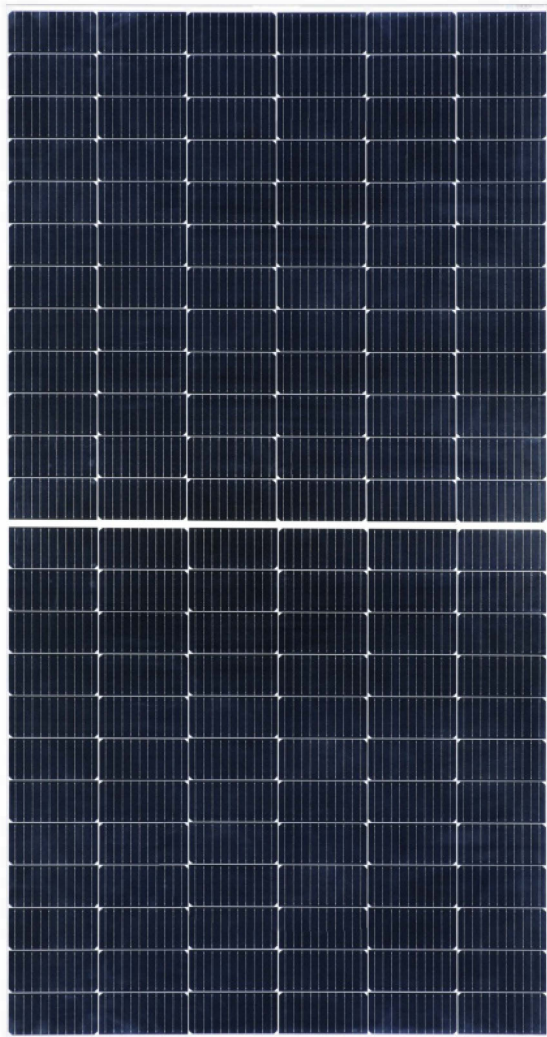


Solar Modules 580 Wp (DCR)

N-TYPE TOPCON 16BB
BIFACIAL (GLASS TO GLASS)

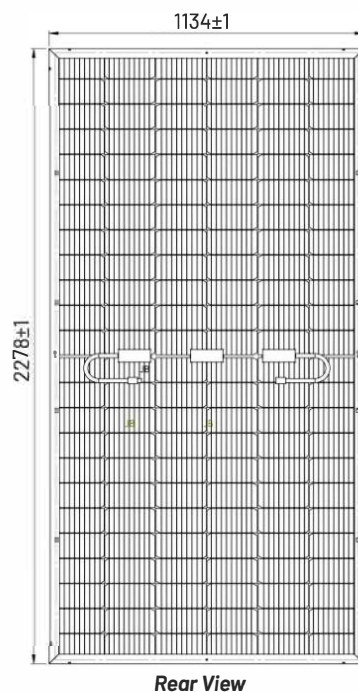
MODEL:

INA-144THC-GGF-580

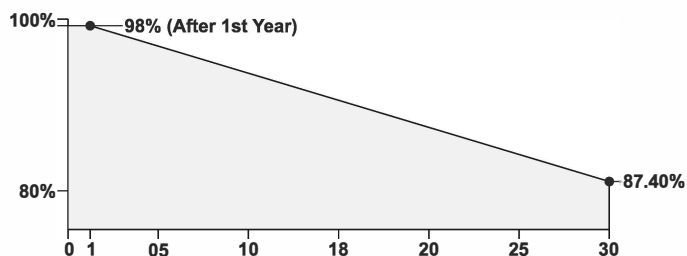


PRODUCT | KEY FEATURES

- Anti-reflective (AR) Coated Glass for Enhanced Power
- Excellent Module Efficiency with Bifacial Power Gain
- Microtek Solar Module ensures Long-term reliability
- Positive Power Tolerance with Current Binning to Prevent Mismatch Losses



LINEAR PERFORMANCE WARRANTY



MADE IN INDIA



Industry leading linear power output warranty*

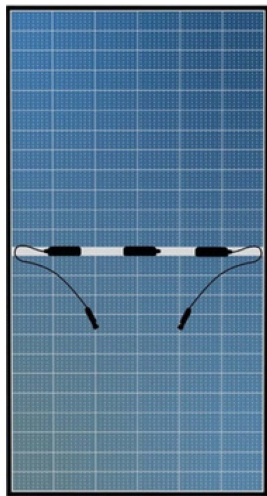


Product warranty on materials and workmanship**

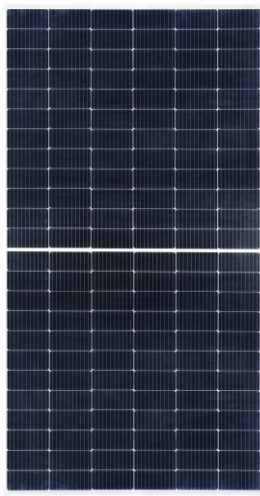
CERTIFICATIONS & STANDARDS:

IS:14286/IEC 61215, IS/IEC 61730-1, IS/IEC 61730-2, IEC 62716,
IEC 62804, IEC 60068-2-68, IEC 61853, IEC 61701, IEC TS 63342, IEC TS 63209-1

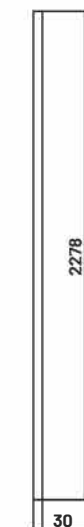
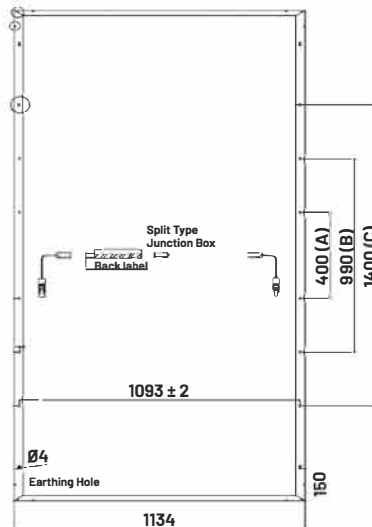




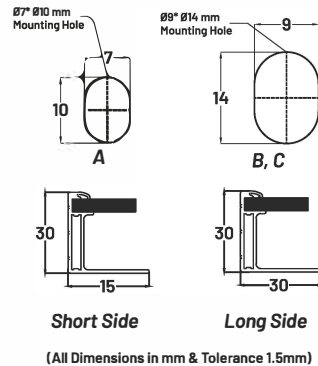
Rear View



Front View



Side View



(All Dimensions in mm & Tolerance 1.5mm)

TECHNICAL DATA

*STC: Irradiance 1000 W/m² module temperature 25°C, Am=1.5;

*NOCT: Irradiance 800 W/m², ambient temperature 20°C, Am=1.5, Wind speed 1m/sec. Average power reduction of 4.5% at 200 W/m². Measuring Uncertainty +/- 3%

Module Type	Unit	STC	NOCT
Peak Power -Pmax	Wp	580	435
Maximum voltage (Vmpp)	V	44.79	42.03
Maximum current (Impp)	A	12.95	10.35
Open circuit voltage (Voc)	V	52.85	49.79
Short circuit current (Isc)	A	13.71	11.01
Module Efficiency	%	22.45	
Operating temperature range (°C)		-40 to +85°C	Power Tolerance
Maximum system voltage		DC1500V (IEC)	Nominal operating cell temperature (NOCT)
Maximum series fuse rating		30A	45 ± 2 °C
Temperature coefficients of Isc (α)		0.0465%/°C	Application
Temperature coefficients of Pmax (γ)		-0.3023%/°C	Safety Class
Temperature coefficients of Voc (β)		-0.2114%/°C	Application Rating
			Class A

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @STC [Bifaciality Factor: 80% ± 10%]

[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component rating should be selected as per actual Bifacial gain at site (module currents indicated below)]

**Power gain from rear side depends upon the ground reflectance (Albedo) & Bifaciality factor.

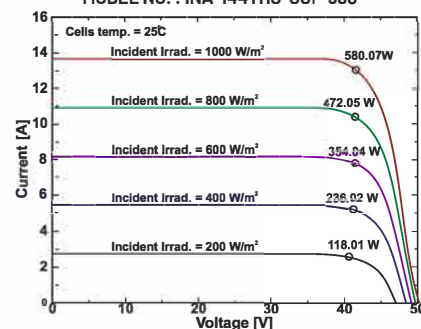
Bifacial Gain	Measurement	Unit	580
5%	Maximum Power (Pmax)	Wp	609.00
	Module Efficiency	%	23.58
10%	Maximum Power (Pmax)	WP	638.00
	Module Efficiency	%	24.70
25%	Maximum Power (Pmax)	WP	725.00
	Module Efficiency	%	28.07

MECHANICAL SPECIFICATIONS

Cell type	Half-cut N-type TOPCon Bifacial Solar cells
Dimensions	2278(L) x 1134(W)
Weight(kg)	32±0.5 Kg
Front Glass	2.0mm AR-coating heat-strengthened glass
Rear Glass	2.0mm heat-strengthened glass
Junction B x	30A Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (Ip68)
Solar Cable	4 sq. mm, 300 mm length x 2 Nos.
Connectors	MC4 Compatible Connector IEC/UL Certified
Frame Material	Anodized aluminum alloy, silver color
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Hail Test	Max. diameter of 25 mm with velocity 23 m/s

I-V CHARACTERISTICS AT DIFFERENT IRRADIANCE

MODEL NO. : INA-144THC-GGF-580



IV Curve Variation with Temperature

Caution: Please read safety and installation instructions before using the product.

NOTE: Because of a policy of continuous product improvement, the specifications are subject to change without notice.

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