

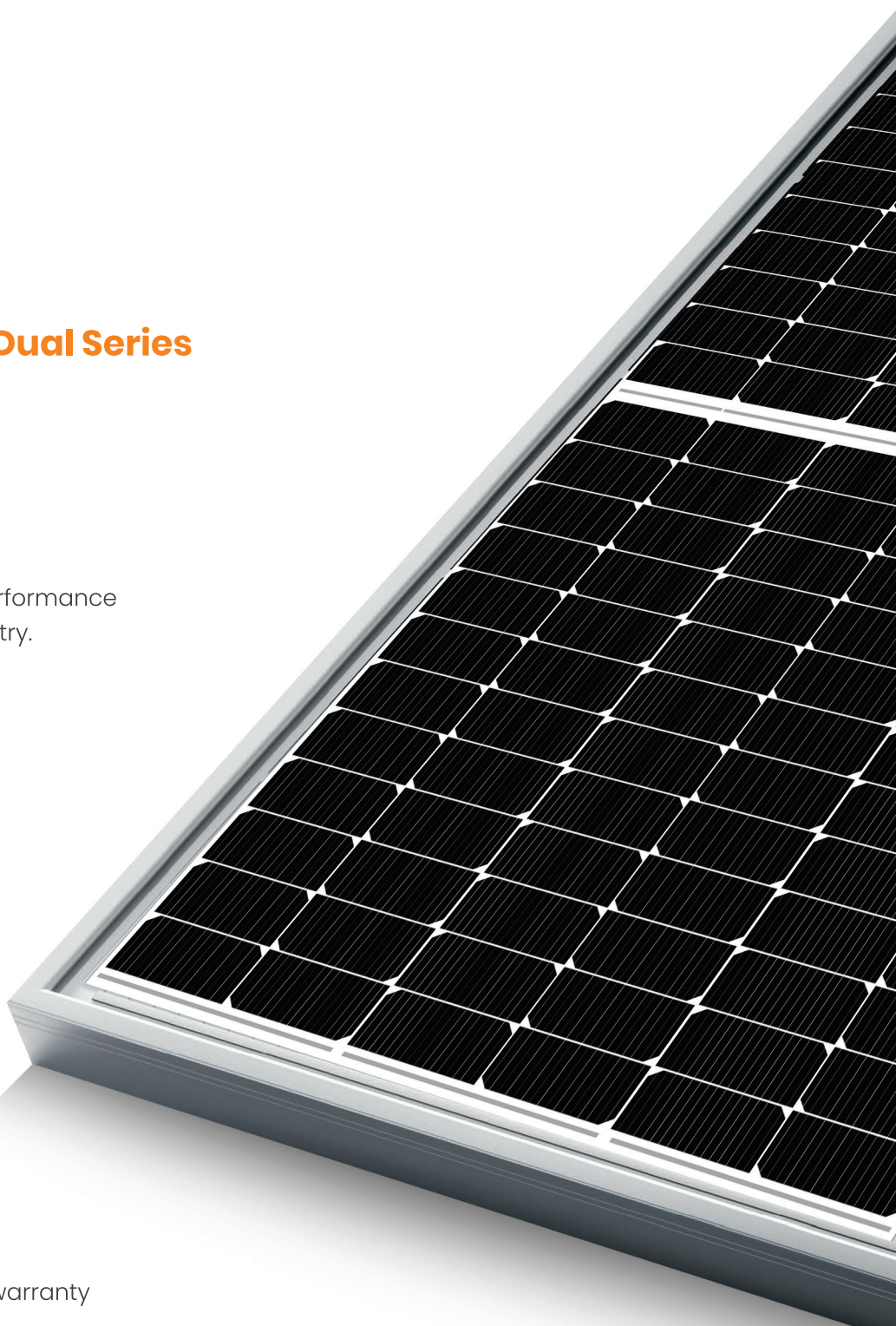


Tapi Trans Dual Series

570-595 Watt

N-Type Dual Glass Modules

The all-new era of efficiency and performance that sets new standards in the industry.



12 year product warranty



30 year linear performance warranty

Product & System Certifications



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018



R-72008125



IEC 61215-1 & 2: 2021
IEC 61730-1 & 2: 2023
UL 61730-1 & 2: 2022



Module Efficiency
up to 23.03%



144
Half Cut Cell



Weather
Resistant



Ideal For
Urban Environment

Quality & Reliability

IP68-rated junction box designed for long-term weather endurance.

Manufactured using high-grade raw materials to ensure superior quality, durability, efficiency, and high throughput.

Module image is for reference only, actual appearance may vary.

TAPI TRANS DUAL SERIES – TECHNICAL DATA

TECHNICAL DATA FOR STGP144M10B16-AAA (570 – 595) N-TYPE TOPCON BI-FACIAL MODULE

ELECTRICAL PARAMETER AT STC ^{#1,2}

MODULE TYPE	STGP144M10B16-AAA (570-595)					
Capacity rating – P _{max} (Wp)	570	575	580	585	590	595
Power Tolerance (Wp)	0-4.99	0-4.99	0-4.99	0-4.99	0-4.99	0-4.99
Open circuit voltage – Voc(V)	51.08	51.28	51.48	51.68	51.40	51.50
Short circuit current – Isc(A)	14.24	14.30	14.36	14.42	13.80	13.87
Rated voltage – Vmp(V)	42.80	43.00	43.20	43.40	45.07	45.15
Rated current – Imp(A)	13.32	13.38	13.43	13.48	13.10	13.18
Module efficiency (%)	22.07	22.26	22.45	22.65	22.84	23.03

#1 Irradiance 1000 W/m², spectrum AM 1.5 and Module temperature of 25°C.

#2 Except P_{max} other parameters have a tolerance of ± 3%

BI-FACIAL OUTPUT – REAR SIDE POWER GAIN**

5% Gain	Maximum Power (P _{max})	599	604	609	614	619.50	624.75
	Module Efficiency STC (%)	23.17	23.37	23.57	23.78	23.98	24.18
15% Gain	Maximum Power (P _{max})	656	661	667	673	649.00	654.50
	Module Efficiency STC (%)	25.37	25.60	25.82	26.04	25.12	25.34
25% Gain	Maximum Power (P _{max})	713	719	725	731	737.50	743.75
	Module Efficiency STC (%)	27.58	27.82	28.07	28.31	28.55	28.79

**Additional power gain from the rear side depends on the albedo. Higher albedo results in higher power gain.

ELECTRICAL PARAMETER AT NOCT ^{#3}

Power (W)	429.55	433.32	437.09	440.86	460.06	456.29
Vmp (V)	40.31	40.48	40.68	40.88	42.51	42.44
Imp (A)	10.66	10.70	10.74	10.78	10.83	10.76
Voc (V)	48.53	48.72	48.91	49.10	48.97	48.88
Isc (A)	11.49	11.54	11.59	11.64	11.35	11.29

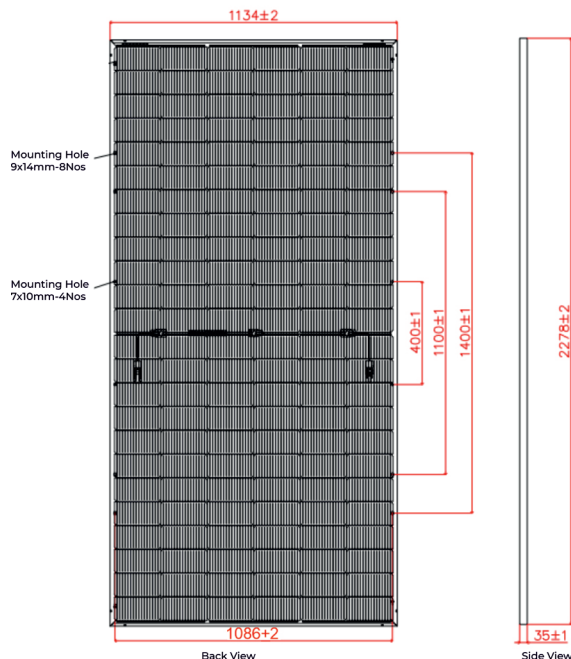
#3 NOCT Irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/s

PRODUCT WARRANTY AND CERTIFICATIONS

Product warranty**	12 years
Performance guarantee**	30 years Linear power warranty with degradation of 1% in 1st year and 0.40% thereafter till 30 years.

**Applicable only when the module is installed as per Solex's installation manual.

DRAWING (Measurements are in mm)



MECHANICAL SPECIFICATION

SPECIFICATION	DETAILS
Solar cells	N type Mono-crystalline Silicon, TOPCon
No. of cells	144 Half Cut (12x6 12x6)
Dimensions	(L) 2278 mm x (W) 1134 mm x (H) 35 mm
Backside	2.0mm, Heat Strengthened Patterned Glass
Front glass	2.0 mm, High Transmission, ARC Tempered Glass
Frame	Silver Anodized Aluminium Alloy
Weight	~32 kg
J-box	IP 68 certified, 3 diodes junction box
Cable	Solar cable 400mm length or Customized Length, 4 mm ²
Connectors	Compatible with MC4-type connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type I)
Surface load	Snow load 5400 Pa, wind load 2400 Pa

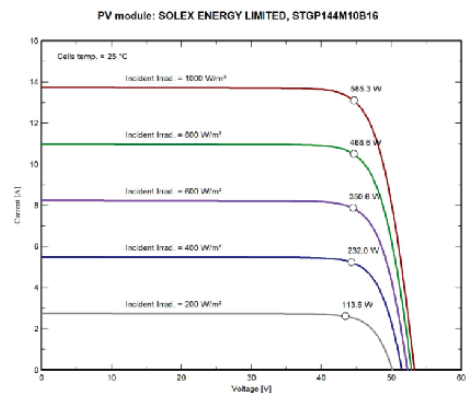
TEMPERATURE COEFFICIENT (TC)

Temperature Coefficient (Voc)**	-0.23%/°C
Temperature Coefficient (Isc)**	0.03%/°C
Temperature Coefficient (P _{max})**	-0.30%/°C

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to +85°C
Maximum system voltage	1500 VDC
NOCT	45 ± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s
Maximum series fuse rating	30A
Bifaciality Factor	80±10%

IV CURVE



- For unpacking, handling, and installation instructions, please refer to Solex Energy's manual guidelines available on the company's website.
- Before placing an order, please confirm your requirements with our sales representative.
- The technical details, drawings, and I-V curves provided here are for reference purposes only.
- Due to continuous product improvements, Solex Energy Limited reserves the right to amend the above specifications without prior notice.
- Dispose of the product as e-waste at the end of its service life, in accordance with applicable regulations.

PACKING CONFIGURATION

Container	40'HQ
Modules per Pallet	31
Pallets per Container	20
Modules per Container	620