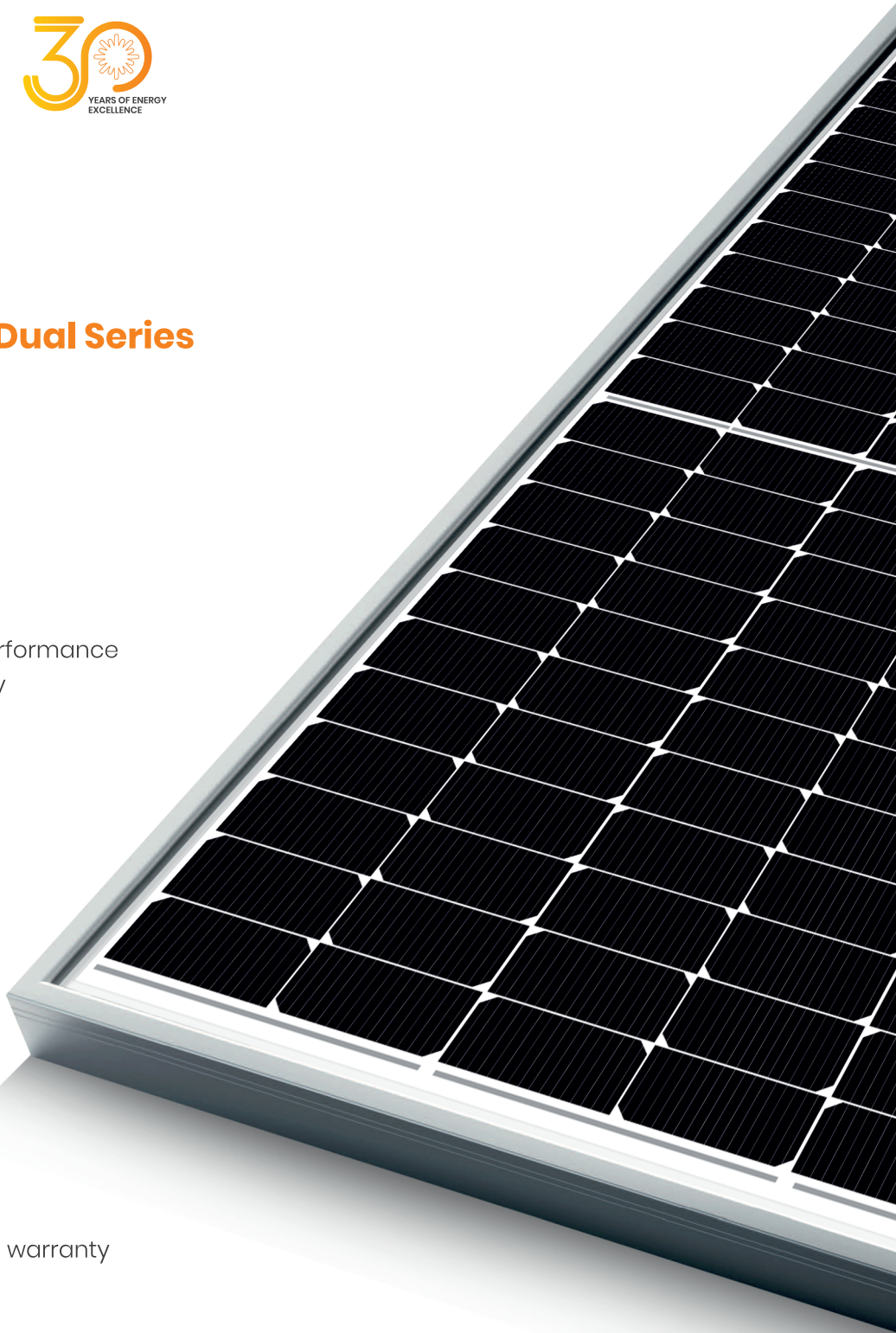


# Tapi Trans Dual Series

## 560-585 Watt

### N-Type Dual Glass Modules

The all-new era of efficiency and performance will set new standards in the industry



**12** 12-years product warranty

**30** 30-years linear performance warranty

Manufactured in an ISO 9001:2015,  
ISO 14001:2015,  
ISO 45001:2018 Certified Facility.

BIS 14286/IEC 61215-1 & 2: 2021,  
IEC 61730-1 & 2: 2023 / UL 61730-1 & 2: 2022



IP68 Rated Junction Box for  
Long-Term Weather Endurance.

Made with high-grade raw material to achieve  
Quality, Durability, Efficiency, and through  
output.



Module Efficiency  
Upto 22.65%



144  
Half Cell



Weather  
Resistant



Ideal For  
Urban Environment

## TAPI TRANS DUAL SERIES – TECHNICAL DATA

### TECHNICAL DATA FOR STGP144M10B16-AAA (560 – 585) N-TYPE TOPCON BI-FACIAL MODULE

#### ELECTRICAL PARAMETER AT STC #1,2

MODULE TYPE	STGP144M10B16-AAA (560-585)					
Capacity rating – Pmax (Wp)	560	565	570	575	580	585
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)	50.68	50.88	51.08	51.28	51.48	51.68
Short circuit current – Isc(A)	14.12	14.18	14.24	14.30	14.36	14.42
Rated voltage – Vmp(V)	42.40	42.60	42.80	43.00	43.20	43.40
Rated current – Imp(A)	13.22	13.27	13.32	13.38	13.43	13.48
Module efficiency (%)	21.68	21.87	22.07	22.26	22.45	22.65

#1 Irradiance 1000 W/m<sup>2</sup>, spectrum AM 1.5 and Module temperature of 25°C.

#2 Except Pmax other parameters have a tolerance of ± 3%

#### BI-FACIAL OUTPUT – REAR SIDE POWER GAIN\*\*\*

Gain	Parameter	560	565	570	575	580	585
5% Gain	Maximum Power (Pmax)	588	593	599	604	609	614
	Module Efficiency STC(%)	22.76	22.97	23.17	23.37	23.57	23.78
15% Gain	Maximum Power (Pmax)	644	650	656	661	667	673
	Module Efficiency STC(%)	24.33	25.16	25.37	25.60	25.82	26.04
25% Gain	Maximum Power (Pmax)	700	706	713	719	725	731
	Module Efficiency STC(%)	27.10	27.34	27.58	27.82	28.07	28.31

\*\* Additional Power Gain from rear side is depends on albedo. (Higher albedo, the higher power gain.)

#### ELECTRICAL PARAMETER AT NOCT #3

Power (W)	422.02	425.78	429.55	433.32	437.09	440.86
Vmp (V)	48.15	48.34	48.53	48.72	48.91	49.10
Imp (A)	11.40	11.45	11.49	11.54	11.59	11.64
Voc (V)	39.90	40.11	40.31	40.48	40.68	40.88
Isc (A)	10.58	10.62	10.66	10.70	10.74	10.78

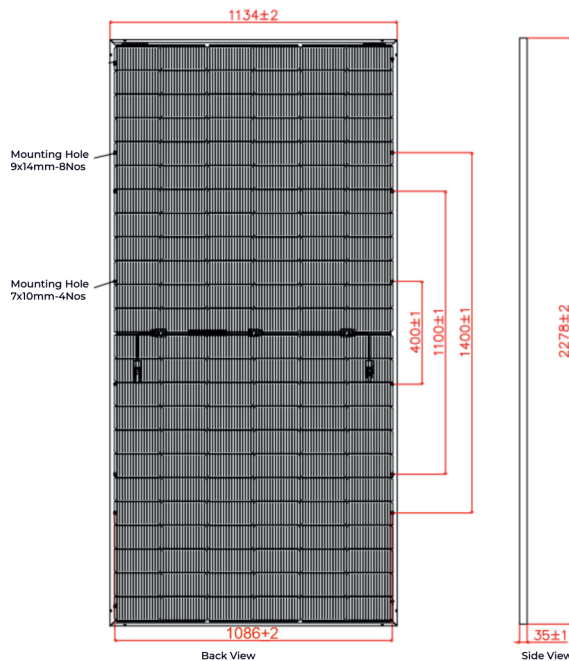
#3 NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec

#### 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 module installation done 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 <sup>2</sup>
Connectors	Compatible with MC4 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

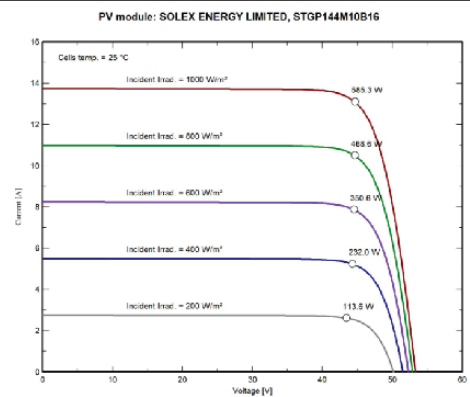
#### TEMPERATURE COEFFICIENT (TC)

Temperature Coefficient (Voc)**	-0.23%/°C
Temperature Coefficient (Isc)**	0.03%/°C
Temperature Coefficient (Pmax)**	-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±5%

#### IV CURVE



- For unpacking, handling & installation instructions refer to Solex Energy's Manual guidelines available on the company website.
- Before placing an order confirm your requirements with our sales representative.
- The technical details, drawings and IV Curve here are for reference purposes only.
- Due to constant product modifications, Solex Energy Limited reserves the right to amend the above specifications without prior notice.
- Dispose-off the product as E-Waste after the end of its working life.

#### PACKING CONFIGURATION

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