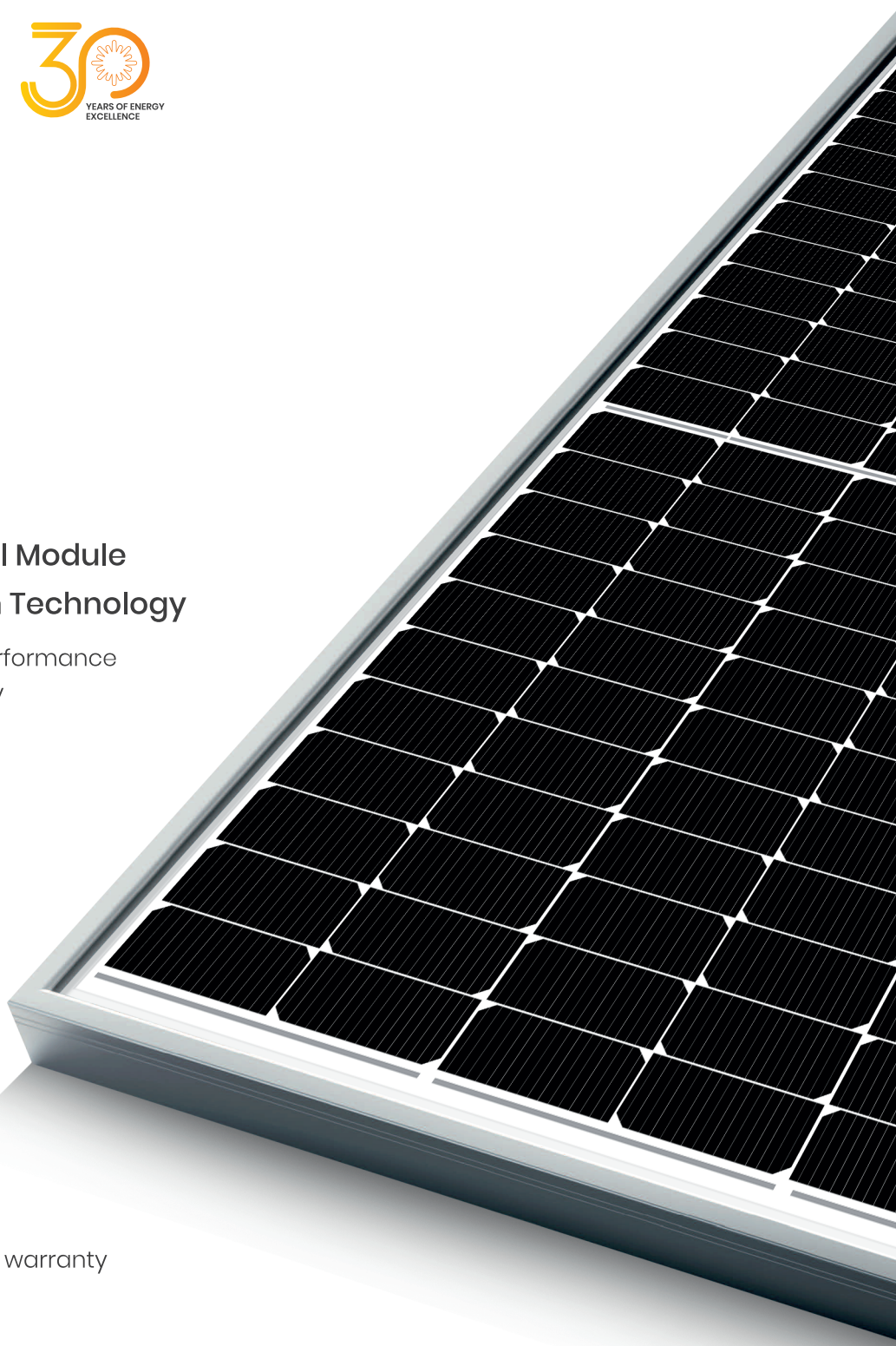


# Tapi-R

## 595-625 Watt

India's First Rectangular Cell Module  
Powered By N-Type TOPCon Technology

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.  
IEC Certificates Certified\*\*  
BIS 14286 / IEC 61215-1 - 2 : 2021,  
IEC 61730-1 & 2 : 2023 / UL 61730-1 & 2 : 2022



Module Efficiency  
Upto 23.14%



Cell Efficiency  
Upto 25.2%



Weather  
Resistant



Lower LCOE  
Higher Savings



Ideal For Large-Scale  
Projects



Super Performance  
& Reliability

## TECHNICAL DATASHEET

# TECHNICAL DATA FOR STGP132R210B16-AAA (595-625)

### ELECTRICAL PARAMETER AT STC #1,2

MODULE TYPE	STGP132R210B16-AAA (595-625)							
Capacity rating - Pmax (Wp)	595	600	605	610	615	620	625	
Power Tolerance (Wp)	0-4.99	0-4.99	0-4.99	0-4.99	0-4.99	0-4.99	0-4.99	
Open circuit voltage - Voc(V)	47.50	47.70	47.90	48.10	48.30	48.50	48.70	
Short circuit current - Isc(A)	15.90	15.95	16.00	16.05	16.10	16.15	16.20	
Rated voltage - Vmp(V)	39.29	39.46	39.61	39.78	39.97	40.17	40.37	
Rated current - Imp(A)	15.15	15.21	15.28	15.34	15.39	15.44	15.49	
#2   Module efficiency (%)	22.03	22.21	22.40	22.58	22.77	22.95	23.14	

#1 Irradiance 1000 W/m<sup>2</sup>, spectrum AM1.5 and Module temperature of 25 °C  
 #2 Except Pmax, all other parameters have a tolerance of ±3%.

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

Gain	Parameter	625	630	635	641	646	651	656
5% Gain	Maximum Power (Pmax)	625	630	635	641	646	651	656
	Module Efficiency STC(%)	23.13	23.32	23.52	23.71	23.91	24.10	24.29
15% Gain	Maximum Power (Pmax)	684	690	696	702	707	713	719
	Module Efficiency STC(%)	25.33	25.54	25.76	25.97	26.18	26.40	26.61
25% Gain	Maximum Power (Pmax)	744	750	756	763	769	775	781
	Module Efficiency STC(%)	27.53	27.77	28.00	28.23	28.46	28.69	28.92

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

### ELECTRICAL PARAMETER AT NOCT #3

Power (W)	452.80	456.70	460.60	464.40	468.20	472.00	475.80
Vmp (V)	37.34	37.50	37.64	37.81	37.99	38.18	38.37
Imp (A)	12.14	12.18	12.24	12.29	12.33	12.37	12.41
Voc (V)	45.14	45.33	45.52	45.71	45.90	46.09	46.28
Isc (A)	12.77	12.81	12.85	12.89	12.93	12.97	13.01

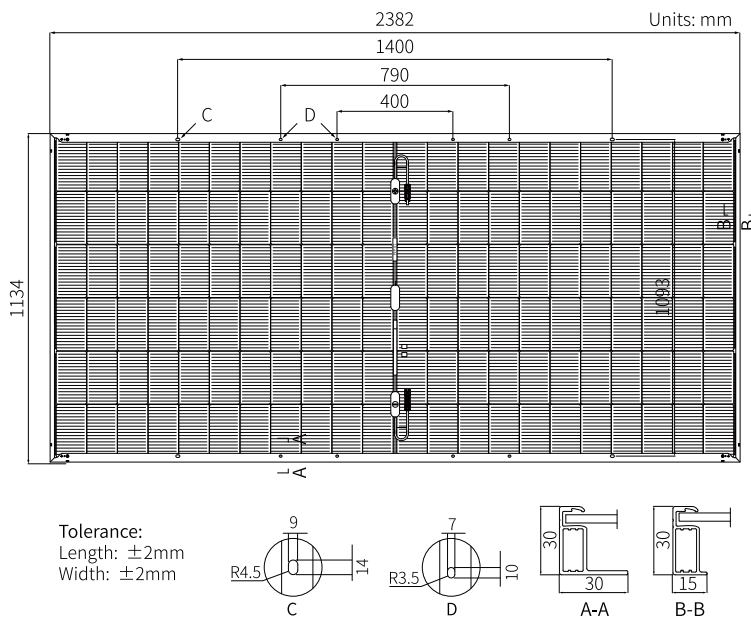
#3 NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec

### PRODUCT WARRANTY

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	132 Half cut (11x6    11x6)
Dimensions	(L) 2382 mm x (W) 1134 mm x (H) 30mm
Backside	2.0mm, Heat strengthened patterned Glass
Front glass	2.0mm, High Transmission, ARC Tempered Glass
Frame	Silver Anodized Aluminium Alloy
Weight	34.0 kg
J-box	IP 68 certified, 3 diodes junction box
Cable	Solar cable 400 mm 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 1)
Surface load	(Snow load 5400 Pa, wind load 2400 Pa).

### TEMPERATURE COEFFICIENT (TC)

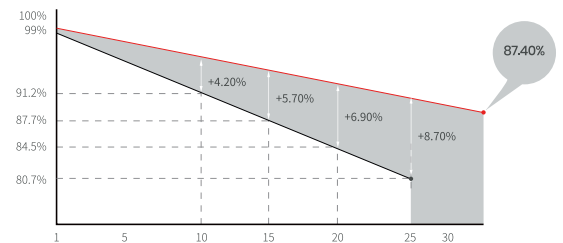
Temperature Coefficient (Voc)**	-0.24 % /°C
Temperature Coefficient (Isc)**	-0.04 % /°C
Temperature Coefficient (Pmax)**	-0.280 % /°C

### PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to +85°C
Maximum system voltage	1500 VDC
NOCT	45± 2°C
Hail resistance	Maximum diameter of 25 mm with velocity 23 m/s
Maximum series fuse rating	30A
Bifaciality Factor	80±5 %

### PERFORMANCE DEGRADATION CHART

### ADDITIONAL VALUE



- 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	36
Pallets per Container	20
Modules per Container	720