

TY-132N-HBDR N-Type-TOPCon210R Bifacial Dual-Glass Module

610-655W

QUALITY ASSURANCE

12 years	30 years
Product Warranty	Linear Power Warranty
1%	0.4%
First-Year Degradation	Annual Power Degradation

PRODUCT AND QUALITY CERTIFICATES



KEY FEATURES



Bifaciality up to 85%
More power generation
from the rear side



Excellent PID resistance
Lower power degradation
for higher energy yield



Lower temperature coefficient (Pmax):
-0.29%/°C
Increases power generation
in hot climate



Better performance under low light
conditions such as cloudy days,
mornings and evenings

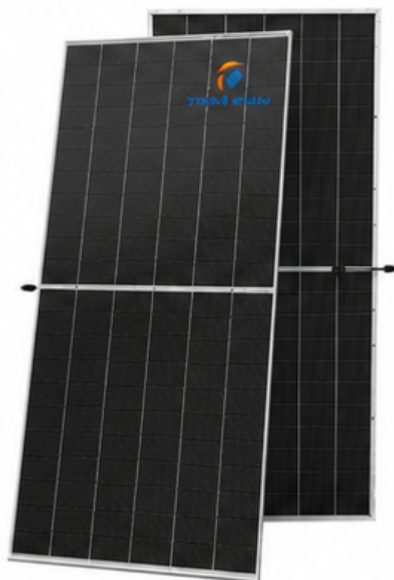


Advanced cell cutting
technology
Lower operating temperature



Withstand heavy snow load up to
5400 Pa and wind load up to
2400 Pa*

* Please refer to the installation manual
for details



TY-132N-HBDR N-Type-TOPCon210R

MECHANICAL SPECIFICATIONS

Cell Type	N-Type Mono-crystalline
Number of Cells	132 (66×2)
Module Dimensions	2382 × 1134 × 30 mm
Module Weight	32.4 kg
Front Glass	2.0 mm, Anti-reflection Coated
Rear Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68, 3 Bypass Diodes
Safety Class	Class II
Fire Rating	Class C
Connector Type	JK03M/MC4 Compatible
Cable	4.0 mm², Portrait: (+) 300 mm, (-) 200 mm; customisable

PACKAGING CONFIGURATION

Modules per Pallet	36 Pieces
Pallet Dimensions	2396 × 1110 × 1251 mm
Loading Capacity	13.5 m Trailer: 36 pallets, 20 ft Container: 720 pcs/pallet 17.5 m Trailer: 36 pallets, 25 ft Container: 900 pcs/pallet 40 ft HC Container: 36 pallets, 720 pcs/pallet

ELECTRICAL PARAMETERS (STC)

Maximum Power Pmax (W)	610	615	620	625	630	635	640	645	650	655
Maximum Power Voltage Vmp (V)	40.46	40.60	40.74	40.88	41.02	41.16	41.31	41.43	41.57	41.71
Maximum Power Current Imp (A)	15.08	15.15	15.22	15.29	15.36	15.43	15.51	15.57	15.64	15.71
Open Circuit Voltage Voc (V)	48.68	48.89	49.09	49.29	49.48	49.66	49.85	50.06	50.26	50.46
Short Circuit Current Isc (A)	15.96	16.02	16.08	16.14	16.20	16.26	16.32	16.38	16.44	16.50
Module Efficiency (%)	22.6	22.8	23.0	23.1	23.3	23.5	23.7	23.9	24.1	24.3
Power Tolerance	0 ~ +3%									
Maximum System Voltage	DC 1500V									
Maximum Series Fuse Rating	35A									
Operating Temperature	-40°C ~ +85°C									

ELECTRICAL PARAMETERS (BNPI)

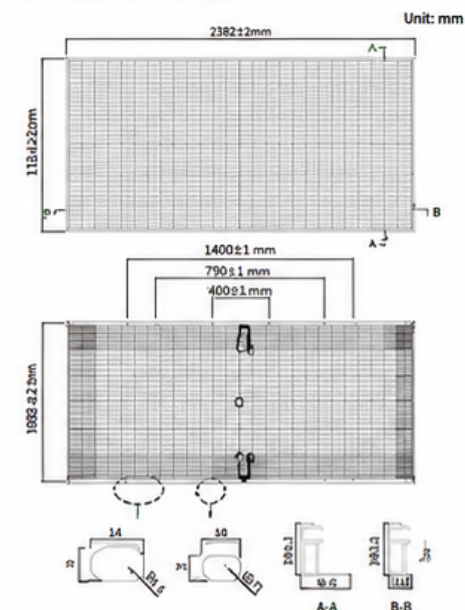
Maximum Power Pmax (W)	674	679	685	690	696	701	707	712	718	724
Maximum Power Voltage Vmp (V)	40.46	40.59	40.75	40.88	41.04	41.17	41.33	41.45	41.61	41.74
Maximum Power Current Imp (A)	16.66	16.73	16.81	16.86	16.95	17.01	17.11	17.15	17.21	17.32
Open Circuit Voltage Voc (V)	48.68	48.86	49.06	49.25	49.46	49.66	49.86	50.06	50.26	50.46
Short Circuit Current Isc (A)	17.64	17.70	17.76	17.82	17.88	17.94	18.01	18.06	18.12	18.24
Bifaciality	75% ± 5% ~ 80% ± 5% ~ 85% ± 5% ~ 90% ± 5%									

OPERATING CONDITIONS

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	35A
Bifaciality Factor	φVoc: 98 ± 5%; φIsc: 80 ± 5%; φPmax: 80 ± 5%

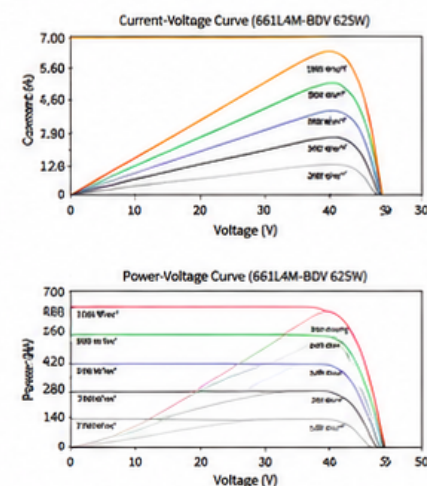
Bifacial Dual-Glass Module 610-655W

ENGINEERING DRAWINGS



* Note: For specific dimensions and tolerance values, please refer to the installation manual.

IV CURVES



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