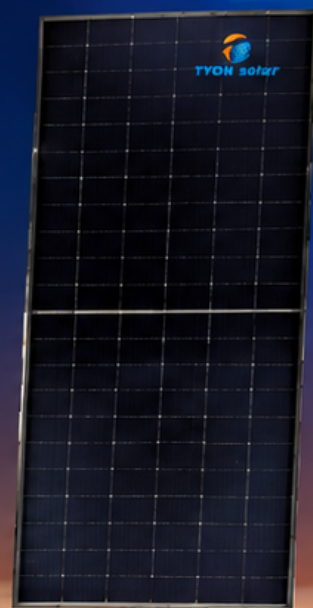


TY-132N-HBDG N-Type-TOPCon210 "Shacheng" Series Module 710-745W

High Efficiency | Anti-PID | High Reliability

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

Product and Quality
Certification



High Power Output

Front side power up to 8000 Pa,
rear side power up to 4000 Pa,
Passed hail test of 5400 Pa,
effectively reducing the risk
of module breakage



Anti-PID

Optimized cell process and selected
material system effectively guarantee
the excellent anti-PID performance
of the module



High Reliability

Strict process control and product testing
ensure the module's high reliability
and consistently excellent performance



High Compatibility

Pass IEC 61730 test,
suitable for mainstream inverter
and tracking system installation

TY-132N-HBDG N-Type-TOPCon210

MECHANICAL SPECIFICATIONS

Cell Type	N-type Monocrystalline
Number of Cells	132 (66*2)
Module Dimensions	2384 × 1303 × 33 mm
Weight	40 kg
Front Glass	2.0 mm, Anti-reflection Coating
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 C1
Connector Type	Compatible with MC4
Cable	4.0 mm ² , Portrait: (+) 300 mm, (-) 200 mm; custom length

PACKAGING CONFIGURATION

Module per Pallet	31 pcs
Pallet Dimensions	2415 × 1120 × 1150 mm (Including pallet)
Loading Capacity	17.5 m Truck: 558 pcs, 20 ft Container: 728 pcs 40 ft HQ Container: 558 pcs, 40 ft HC Container: 806 pcs

ELECTRICAL PARAMETERS (STC)

	710	715	720	725	730	735	740	745
Maximum Power P _{max} (W)	710	715	720	725	730	735	740	745
Minimum Power Voltage V _{mp} (V)	40.90	41.10	41.30	41.50	41.70	41.90	42.10	42.30
Minimum Power Current I _{mp} (A)	17.36	17.40	17.44	17.48	17.51	17.56	17.58	17.62
Open Circuit Voltage V _{oc} (V)	48.90	49.10	49.30	49.60	49.70	49.90	50.10	50.30
Short Circuit Current I _{sc} (A)	18.40	18.48	18.52	18.58	18.64	18.64	18.70	18.80
Module Efficiency (%)	22.8%	22.9%	23.1%	23.2%	23.3%	23.5%	22.7%	23.6%
Power Tolerance	0 ~ +2%							

ELECTRICAL PARAMETERS (BNPI)

	787	792	798	801	809	814	820	825
Maximum Power P _{max} (W)	787	792	798	801	809	814	820	825
Minimum Power Voltage V _{mp} (V)	40.90	41.10	41.30	41.50	41.70	41.90	42.10	42.30
Minimum Power Current I _{mp} (A)	19.23	19.28	19.32	19.36	19.40	19.45	19.48	19.52
Open Circuit Voltage V _{oc} (V)	49.00	49.20	49.30	49.60	49.40	50.16	50.30	50.60
Maximum Static Load, Front	20.09	45.30	49.40	49.60	49.80	50.10	50.10	50.50
Hailstone Impact Load Rear	20.39	20.43	20.49	20.54	20.59	20.63	20.68	20.73

BNPI: Front side irradiance 1000 W/m², rear side irradiance 150 W/m²,
cell temperature 25°C, AM1.5

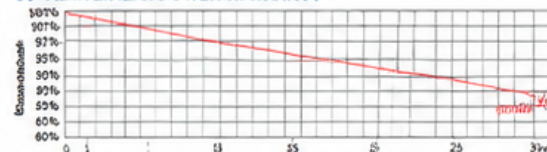
OPERATING CONDITIONS

Operating Temperature	-40°C ~ +16°C
Minimum System Voltage	1500V DC (IEC)
Minimum Series Fuse Rating	35A
Minimum Static Load, Front	5400 Pa (e.g., snow)
Hailstone Test	25 mm, 23 m/s

TEMPERATURE RATINGS

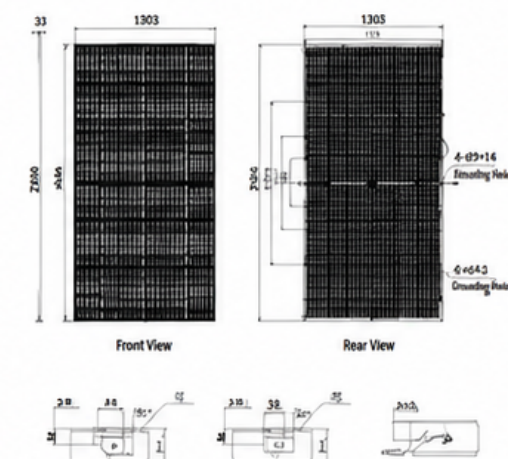
Temperature Coefficient (P _{max})	-0.29%/°C
Temperature Coefficient (V _{oc})	-0.25%/°C
Temperature Coefficient (I _{sc})	0.045%/°C

30-YEAR LINEAR POWER WARRANTY



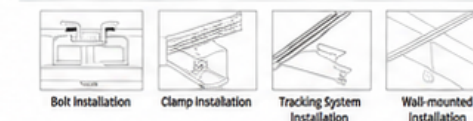
ENGINEERING DRAWINGS

Unit: mm



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

INSTALLATION METHODS



IV CURVES

