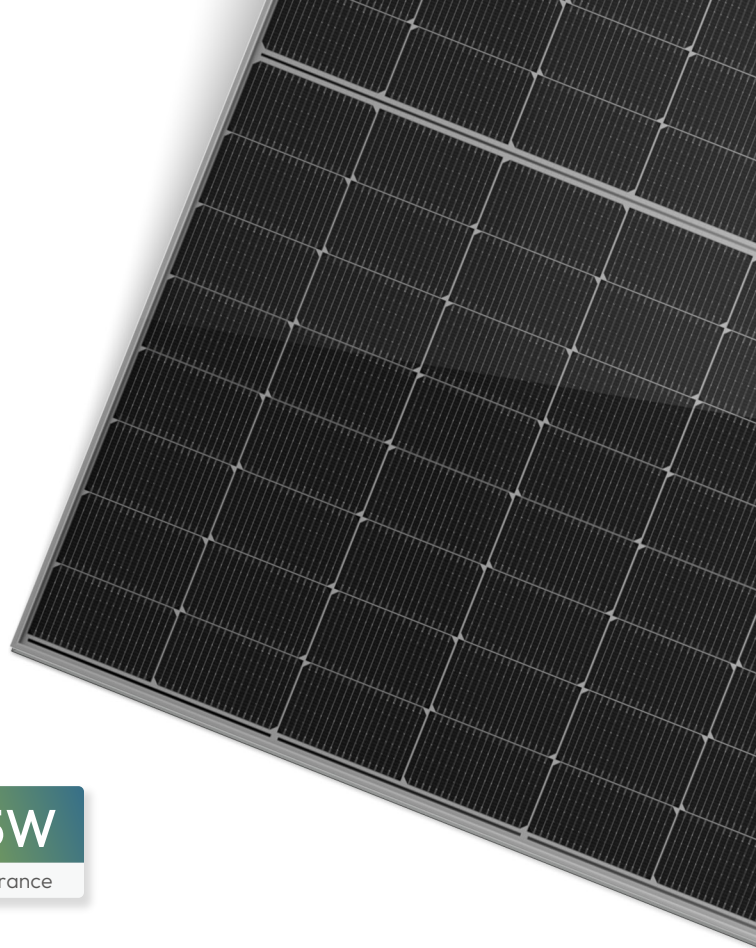


TY-N16-108HG

490-520W

N-Type TOPCon Dual Glass


30Year

Linear Power Warranty

23.38%

Max. Efficiency

0~+5W

Power Tolerance



N-type Technology

Adopting the 182*210mm N-Type TOPCon solar cells with the highest efficiency.



Bifacial with dual glass

Module adopts 182*210mm half cells, bifacial module provide an additional 5%-25% output.



Dual-Sided Power Generation

Dual-sided power generation gain rises with backside light exposure, greatly lowering LCOE.



Low Light Features

Higher performance under low light environment. Bifacial with



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



Anti-PID Guarantee

Optimized cell production and material control minimize PID-induced degradation.

CERTIFICATION



IEC61215, IEC61730

ISO9001:2015 Quality Management System

ISO14001:2015 Environment Management System

ISO45001:2018 Occupational Health and Safety

IEC62941, IEC/TS62994

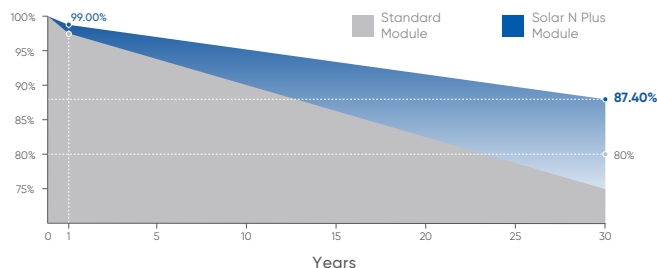
WARRANTY

12 Years

Guarantee on product material and workmanship

30 Years

Linear power output warranty



490-520W

ELECTRICAL CHARACTERISTICS (STC) TY-N16-108HG

Maximum Power (Pm) W	490	495	500	505	510	515	520
Maximum Power Voltage (Vm)	39.57	39.82	40.07	40.32	40.57	40.82	41.07
Maximum Power Current (Im)	15.78	15.84	15.90	15.96	16.01	16.05	16.10
Open Circuit Voltage (Voc)	32.93	33.13	33.33	33.53	33.73	33.93	34.13
Short Circuit Current (Isc)	14.88	14.94	15.00	15.06	15.12	15.18	15.24
Module Efficiency	22.03	22.26	22.48	22.71	22.93	23.16	23.38

STC: AM=1.5, irradiance=1000W/m², module temperature=25°C

ELECTRICAL CHARACTERISTICS (BNPI)

Maximum Power (Pm) W	373	377	381	384	389	393	396
Maximum Power Voltage (Vm)	37.52	37.79	38.06	38.33	38.60	38.80	39.00
Maximum Power Current (Im)	12.68	12.76	12.79	12.81	12.87	12.94	12.97
Open Circuit Voltage (Voc)	30.92	31.12	31.32	31.52	31.72	31.92	32.12
Short Circuit Current (Isc)	12.06	12.11	12.16	12.18	12.26	12.31	12.33

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5.
*Power measurement tolerance: ±3%.

ELECTRICAL PARAMETERS AT NMOT

Cell Type	N- type Mono-crystalline
No. of cells	108(54×2)
Dimensions	1961×1134×30 mm
Weight	27.7 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Output Cables (Including Connector)	4.0 mm ² (+): 400 mm , (-): 200 mm or Customized Length

PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	37 pcs
Packing Description	24 Pallets, Total=(37+37)×12=888 Pieces
Pieces per Container	888 pcs

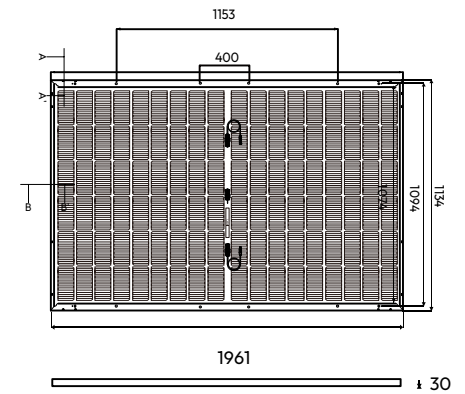
APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25 A
Operating Temperature	-40 °C ~ +85 °C
Mechanical Load	5400Pa/2400Pa
Bifaciality	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

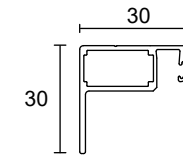
TEMP CHARACTERISTICS

Power Tolerance	0 ~ + 3 %
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	0.045%/°C

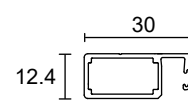
TECHNICAL DRAWING



Frame Cross Section A-A



Frame Cross Section B-B



*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

I-V CURVE

