

TY-N20-96HG

455-475W

All Black Mono-Facial
With Dual Glass

30Year

Linear Power Warranty

23.77%

Max. Efficiency

0~+5W

Power Tolerance



N-type Technology

N-type TOPCon modules feature lower LID/LeTID degradation and superior low-light performance.



HOT 3.0 Technology

N-type modules with JinkoSolar HOT 3.0 deliver higher reliability and efficiency.



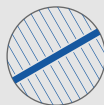
Dual-Sided Power Generation

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



Mechanical Load Enhanced

Certified to withstand:
5400 Pa front side max static test load
2400 Pa rear side max static test load



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

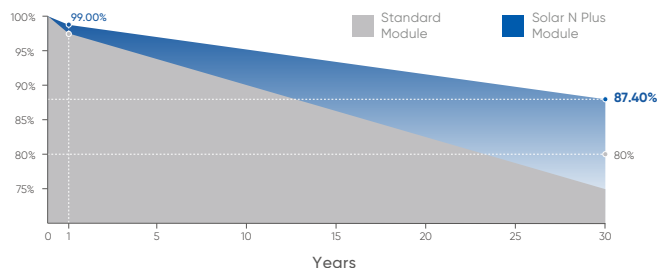
WARRANTY

12 Years

Guarantee on product
material and workmanship

30 Years

Linear power
output warranty



455-475W

ELECTRICAL CHARACTERISTICS (STC) TY-N20-96HG

Maximum Power (Pm) W	455	460	465	470	475
Maximum Power Voltage (Vm)	30.48	30.71	30.94	31.17	31.40
Maximum Power Current (Im)	14.93	14.98	15.03	15.08	15.13
Open Circuit Voltage (Voc)	36.23	36.40	36.57	36.74	36.91
Short Circuit Current (Isc)	15.71	15.76	15.81	15.86	15.91
Module Efficiency	22.77	23.02	23.27	23.52	23.77

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

MECHANICAL SPECIFICATIONS

Cell Type	N- type Mono-crystalline
No. of cells	96(48×2)
Dimensions	1762×1134×30 mm
Weight	24.0 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 mm2 (+): 400 mm , (-): 200 mm or Customized Length

PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	37 pcs
Pallet Dimensions	1792×1140×1249 mm
Pieces per Container	962 pcs

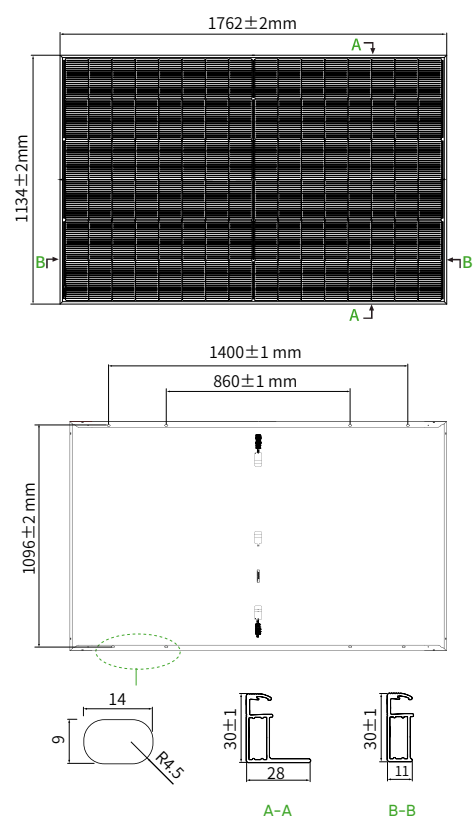
APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30 A
Operating Temperature	-40°C~+70°C
Mechanical Load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s

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



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

I-V CURVE

