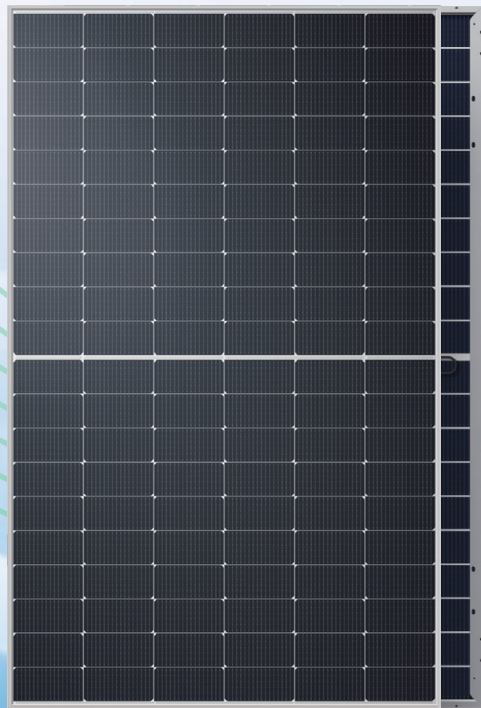


HT¹⁸² TOPCon

Bifacial Series

495~515W

HY-NT10/60GDF



Main Features



N-TYPE TOPCON TECH

- Lower LID
- Excellent Low Irradiance Performance



SMBB + HALF-CELL TECH NON-DESTRUCTIVE CUTTING

- Reduced Internal Current Loss
- Minimized Micro-Crack Impact



HIGH RELIABILITY

- Salt Mist Resistance, Ammonia Resistance, Sand & Dust Resistance
- Anti-PID



HIGH CONVERSION EFFICIENCY

- Module Conversion Efficiency Up to 23.3%
- Bifaciality Rate Up to 80-85%



SUPERIOR POWER GENERATION PERFORMANCE

- Low Temperature Coefficient: $-0.29\%/^{\circ}\text{C}$
- Lower Operating Temperature

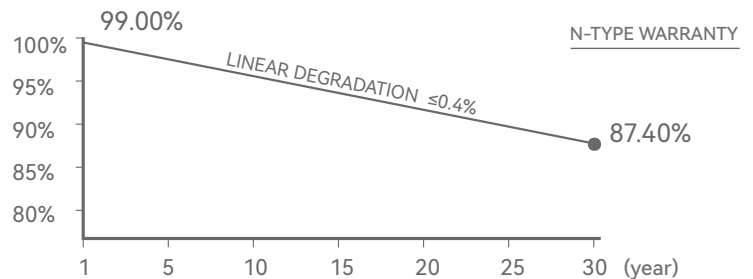


LOWER LEVELIZED COST OF ELECTRICITY

- Lower BOS and LCOE
- Higher ROI

Comprehensive Products and System Certificates

- IEC 61215, IEC 61730
- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018



Munich RE

30 YEAR

Product Workmanship Warranty

30 YEAR

Linear Power Warranty

$\leq 1\%$

First - year power attenuation

$\leq 0.4\%$

Linear power attenuation



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E-mail: info@hysolar.com



Web: <https://www.hysolar.com>

N-Type Bifacial Series HY-NT10/60GDF

495~515W
POWER RANGE

23.3%
EFFICIENCY

0~+5W
POWER SORTING

ELECTRICAL PERFORMANCE PARAMETERS

***STC** : Irradiance 1000W/m², Cell Temperature 25° C, AM=1.5

Rated output (Pmpp/Wp)	495	500	505	510	515
Rated voltage (Vmpp/V)	36.37	36.55	36.73	36.91	37.08
Rated current (Impp/A)	13.61	13.68	13.75	13.82	13.89
Open circuit voltage (Voc/V)	43.52	43.72	43.92	44.12	44.32
Short-circuit current (Isc/A)	14.35	14.42	14.49	14.56	14.63
Module efficiency	22.4%	22.6%	22.8%	23.0%	23.3%

NMOT : Irradiance 800W/m², Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (Pmpp/Wp)	371.7	375.2	378.8	382.4	386.3
Rated voltage (Vmpp/V)	34.13	34.30	34.47	34.64	34.80
Rated current (Impp/A)	10.89	10.94	10.99	11.04	11.10
Open circuit voltage (Voc/V)	41.01	41.20	41.39	41.58	41.77
Short-circuit current (Isc/A)	11.51	11.57	11.63	11.69	11.75

DIFFERENT REAR POWER GAINS (500W)

Power gains	Pmpp/Wp	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	525	36.55	14.36	43.72	15.14
15%	575	36.55	15.73	43.72	16.58
25%	625	36.55	17.10	43.72	18.03

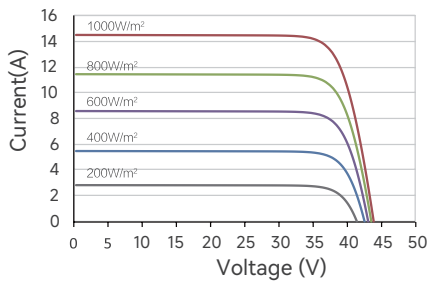
TEMPERATURE COEFFICIENT

Temperature coefficient (Pmpp)	-0.29%/°C
Temperature coefficient (Isc)	+0.043%/°C
Temperature coefficient (Voc)	-0.24%/°C
Nominal module operating temperature (NMOT)	42±2°C

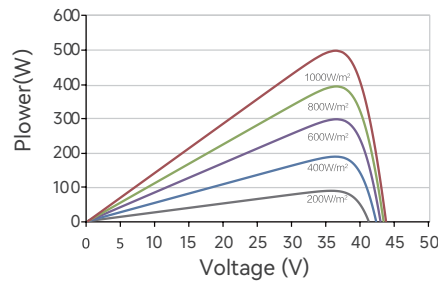
OPERATING PARAMETERS

Max. system voltage (IEC)	1500Vdc
Number of diodes	3
Junction box protection rating	IP 68
Max. series fuse rating	30A
Operational temperature	-40~+85°C
Bifaciality rate	80±5%

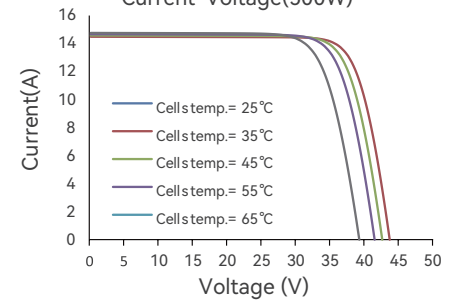
Current-Voltage(500W)



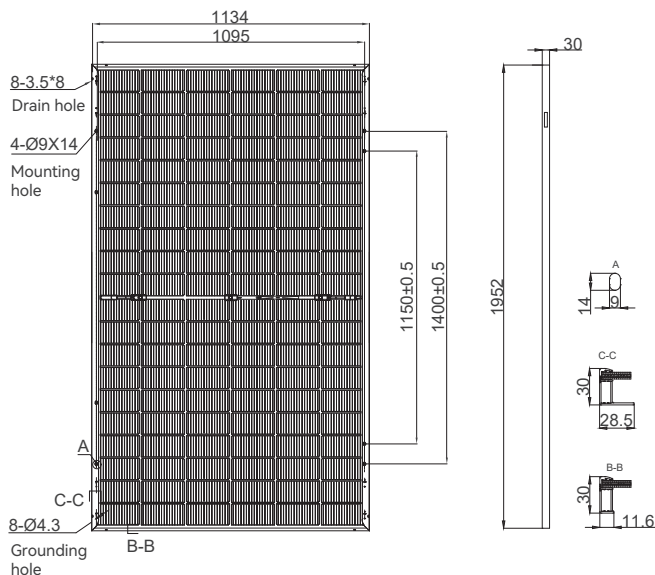
Power-Voltage(500W)



Current-Voltage(500W)



MECHANICAL PARAMETERS



Outer dimensions (L x W x H)	1952 x 1134 x 30 mm
Cell	N type mono-crystalline
Number of cells	120 (6*20)
Frame Type	Aluminum, silver/black anodized
Glass thickness	2.0+2.0 mm
Cable length (including connector)	Portrait: (+)300 mm,(-)300 mm; Customized length
Cable cross-sectional area (IEC)	4 mm ² / 12 AWG
① Maximum test mechanical load	5400Pa (front) /2400Pa(rear)
Connector type (IEC)	PV-HYC11xyz(standard)/MC4 EVO2(optional)
Module weight	26.5 kg
Packaging unit	36 pcs / box
Weight of packing unit	1003 kg / box
Modules per 40' HQ container	864 pcs

① Please refer to the installation manual or contact us to confirm. The maximum test mechanical load = 1.5× maximum design mechanical load.

*The data above is for reference only and the actual data is in accordance with the practical testing. Power Measurement Tolerance ±3% under STC standard.