

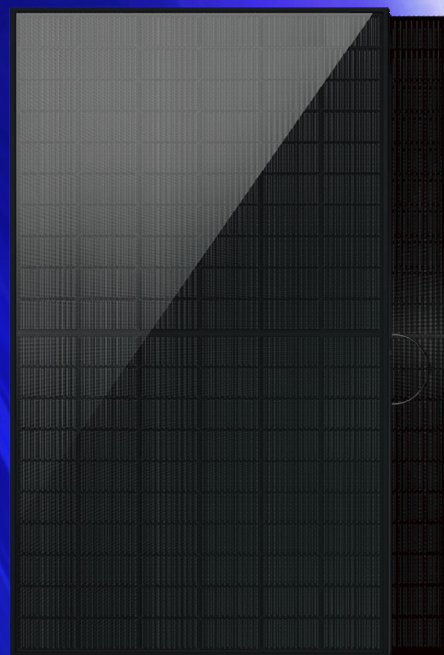


Bifacial Series  
Full Black

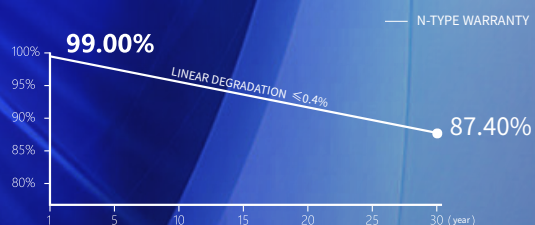


# 495~515W

## HY-NT10/60BGDF



- Module Efficiency up to 23.3%
- Zero LID
- SMBB + Half-cell tech, reduce internal current loss, improve module efficiency, minimize micro-crack impacts, and improve module reliability
- Non-destructive Slicing Tech, reduce micro-crack risk
- Lower temperature coefficient (-0.29%/°C), lower operating temperature, increase the power generation
- Excellent low irradiance performance, higher power output
- Bifaciality rate up to 80-85%, and up to 30% power gain from back side (depending on albedo)
- Resistant to harsh environments
- Anti PID
- More energy yield, lower BOS and LCOE



- 30-YEAR PRODUCT WORKMANSHIP WARRANTY
- 30-YEAR LINEAR POWER WARRANTY

Subject to the terms and conditions contained in the applicable HY Solar Limited Warranty Statement. Also this 30-year limited product warranty is available only for products installed and operating on residential rooftops in certain regions.

### Comprehensive Products and System Certificates

IEC 61215, IEC 61730  
ISO 9001:2015 Quality management systems  
ISO 14001:2015 Environmental management systems  
ISO 45001:2018 Occupational health and safety management systems



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## Electrical performance parameters

\*STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

Rated output (P <sub>mpp</sub> / Wp)	495	500	505	510	515
Rated voltage (V <sub>mpp</sub> / V)	36.37	36.55	36.73	36.91	37.08
Rated current (I <sub>mpp</sub> / A)	13.61	13.68	13.75	13.82	13.89
Open circuit voltage (V <sub>oc</sub> / V)	43.52	43.72	43.92	44.12	44.32
Short-circuit current (I <sub>sc</sub> / A)	14.35	14.42	14.49	14.56	14.63
Module efficiency	22.4%	22.6%	22.8%	23.0%	23.3%
Power tolerance	0~+5W				

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (P <sub>mpp</sub> / Wp)	371.7	375.2	378.8	382.4	386.3
Rated voltage (V <sub>mpp</sub> / V)	34.13	34.30	34.47	34.64	34.80
Rated current (I <sub>mpp</sub> / A)	10.89	10.94	10.99	11.04	11.10
Open circuit voltage (V <sub>oc</sub> / V)	41.01	41.20	41.39	41.58	41.77
Short-circuit current (I <sub>sc</sub> / A)	11.51	11.57	11.63	11.69	11.75

## Different rear power gains (500W as an example)

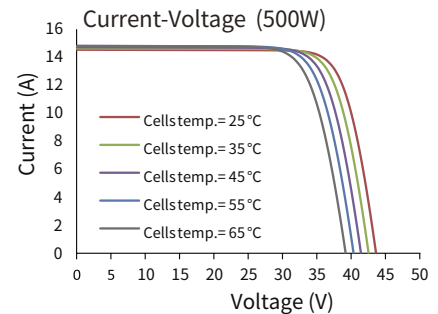
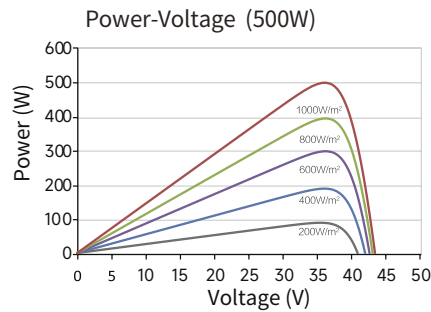
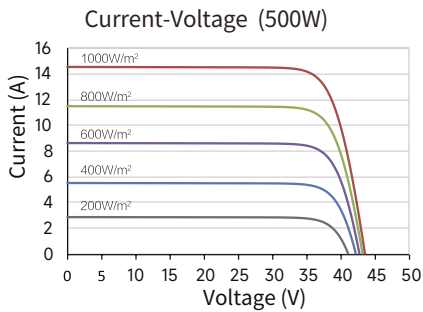
Power gains P <sub>mpp</sub> / Wp	V <sub>mpp</sub> /V	I <sub>mpp</sub> /A	V <sub>oc</sub> / V	I <sub>sc</sub> /A	
5%	525	36.55	14.36	43.72	15.41
15%	575	36.55	15.73	43.72	16.58
25%	625	36.55	17.10	43.72	18.03

## Temperature coefficient

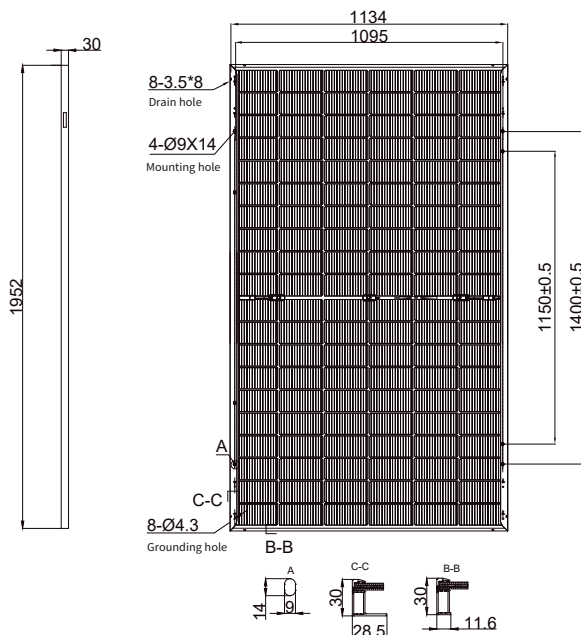
Temperature coefficient (P <sub>mpp</sub> )	-0.29%/°C
Temperature coefficient (I <sub>sc</sub> )	+0.043%/°C
Temperature coefficient (V <sub>oc</sub> )	-0.24%/°C
Nominal module operating temperature (NMOT)	42±2°C

## Operating parameters

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



## 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, black anodized
Glass thickness	2.0+2.0mm (rear glass in glazed black/transparent)
Cable length (including connector)	Portrait: (+) 300 mm, (-) 300 mm; Customized length
Cable cross-sectional area (IEC)	4 mm <sup>2</sup> / 12 AWG
<sup>①</sup> Maximum test mechanical load	5400Pa (front) / 2400Pa (rear)
Connector type (IEC)	PV-HYC11xyz(standard)/MC4 EVO2(optional)
Module weight	26.5kg
Packaging unit	36 pcs / box
Weight of packing unit	1003 kg/box
Modules per 40' HQ container	864 pcs

<sup>①</sup> 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.