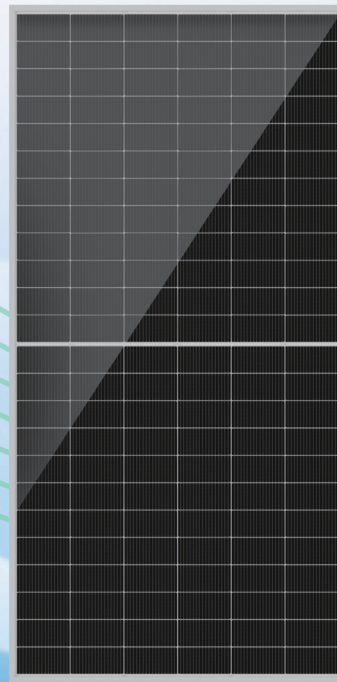


HT 182 TOPCon

Bifacial Series (For Marine Applications)

590~610W

HY-NT10/72GDF



Main Features



N-TYPE TOPCON TECH

- Lower LID
- Excellent Low Irradiance Performance



SMBB + NON-DESTRUCTIVE CUTTING

- Reduced Internal Current Loss
- Minimized Micro-Crack Impact



RESISTANT TO HARSH MARINE ENVIRONMENTS

- Strong Wind Resistance, Wave Impact Resistance, Salt Mist Resistance
- UV Aging Resistance, Superior Waterproofing & Light Transmission



HIGH CONVERSION EFFICIENCY

- Module Conversion Efficiency Up to 23.6%
- Bifaciality Rate Up to 80±5%



SUPERIOR POWER GENERATION PERFORMANCE

- Low Temperature Coefficient: $-0.28\%/^{\circ}\text{C}$
- Lower Operating Temperature

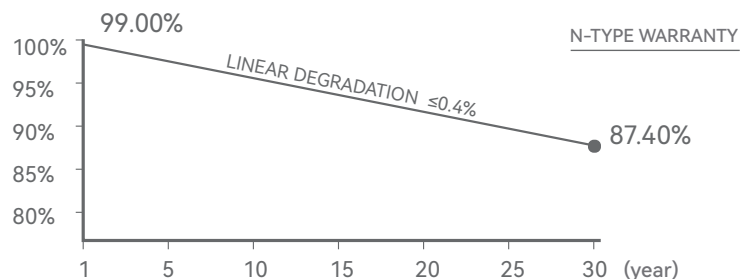


LOWER LEVELIZED COST OF ELECTRICITY

- 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

15 YEAR

Product Workmanship Warranty

30 YEAR

Linear Power Warranty

≤1%

First - year power attenuation

≤0.4%

Linear power attenuation



HONGYUAN GREEN ENERGY CO.,LTD.

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The product specifications are subject to change without prior notice.
Please use our latest version.



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

N-Type Bifacial Series
HY-NT10/72GDF (For Marine Applications)

590~610W
POWER RANGE

23.6%
EFFICIENCY

0~+5W
POWER SORTING

ELECTRICAL PERFORMANCE PARAMETERS

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

Rated output (Pmax/W)	590	595	600	605	610
Rated voltage (Vmpp/V)	44.15	44.34	44.54	44.74	44.94
Rated current (Impp/A)	13.37	13.42	13.48	13.53	13.58
Open circuit voltage (Voc/V)	52.20	52.35	52.55	52.75	52.95
Short-circuit current (Isc/A)	14.13	14.19	14.25	14.31	14.37
Module efficiency	22.8%	23.0%	23.2%	23.4%	23.6%

BNPI : Front irradiance1000W/m², Back irradiance135W/m², Cell Temperature 25° C, AM=1.5

Rated output (Pmax/W)	646.1	650.5	656.1	661.0	666.0
Rated voltage (Vmpp/V)	44.04	44.19	44.36	44.54	44.70
Rated current (Impp/A)	14.67	14.72	14.79	14.84	14.90
Open circuit voltage (Voc/V)	52.10	52.30	52.50	52.70	52.90
Short-circuit current (Isc/A)	15.50	15.57	15.63	15.70	15.76

DIFFERENT REAR POWER GAINS (600W)

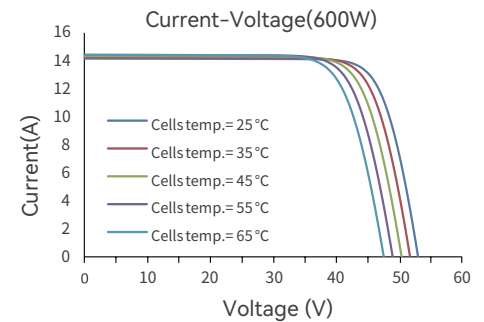
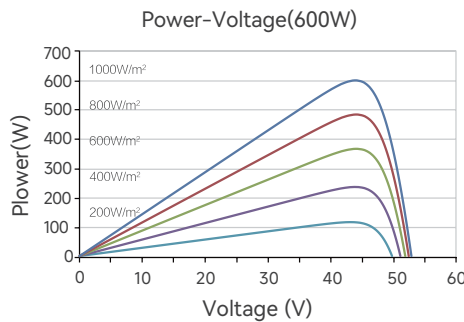
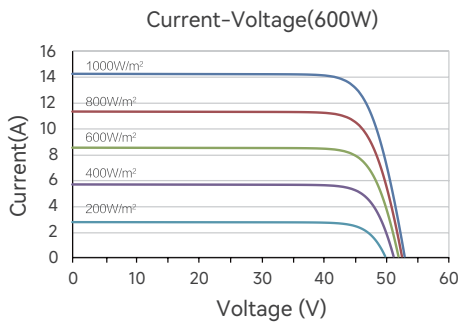
Power gains	Pmpp/Wp	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	630	44.54	14.14	52.55	14.96
15%	690	44.54	15.49	52.55	16.39
25%	750	44.54	16.84	52.55	17.81

TEMPERATURE COEFFICIENT

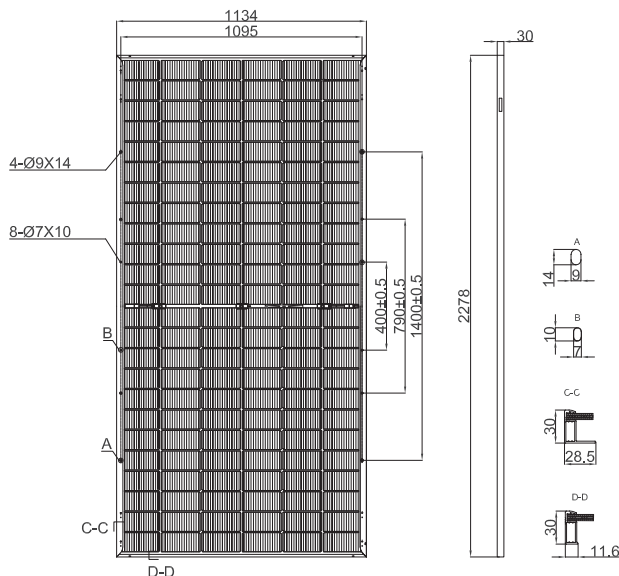
Temperature coefficient (Pmpp)	-0.28%/°C
Temperature coefficient (Isc)	+0.043%/°C
Temperature coefficient (Voc)	-0.24%/°C
Nominal module operating temperature (NMOT)	42±2°C

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%



MECHANICAL PARAMETERS



Outer dimensions (L x W x H)	2278 x 1134 x 30 mm
Cell	N type mono-crystalline
Number of cells	144 (6*24)
Frame Type	Aluminum, silver 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	32.1 kg
Packaging unit	36 pcs / box
Weight of packing unit	1215 kg / box
Modules per 40' HQ container	720 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.