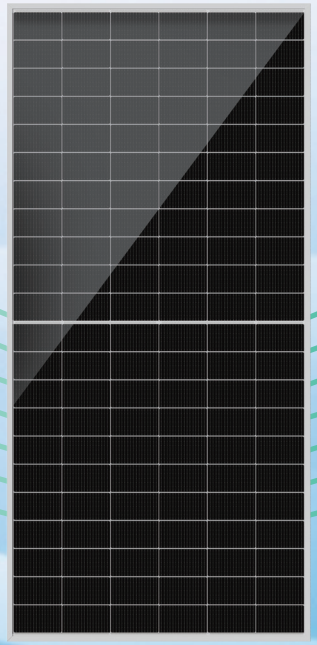
HY SOLAR

HT 210R TOPCon Bifacial Series (For Marine Applications)



615~635W

HY-NT11/66GDF

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 23.5%
- Bifaciality Rate Up to 80±5%

SUPERIOR POWER GENERATION PERFORMANCE

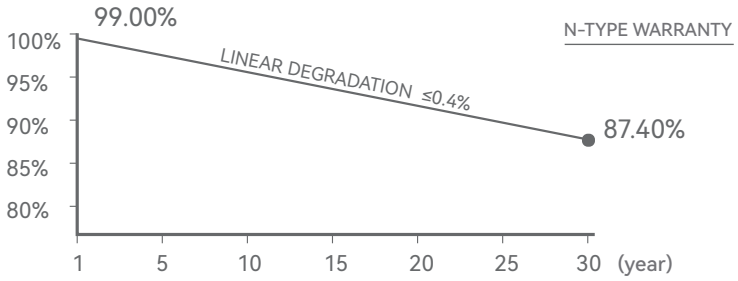
- Low Temperature Coefficient: -0.28%/°C
- Lower Operating Temperature

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



15 YEAR Product Workmanship Warranty

30 YEAR Linear Power Warranty

≤1% First - year power attenuation

≤0.4% Linear power attenuation

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N-Type Bifacial Series
HY-NT11/66GDF (For Marine Applications)

615~635W	23.5%	0~+5W
POWER RANGE	EFFICIENCY	POWER SORTING

ELECTRICAL PERFORMANCE PARAMETERS

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

Rated output (Pmax/W)	615	620	625	630	635
Rated voltage (Vmpp/V)	40.70	40.90	41.10	41.30	41.50
Rated current (Impp/A)	15.12	15.16	15.21	15.26	15.31
Open circuit voltage (Voc/V)	48.70	48.90	49.10	49.30	49.50
Short-circuit current (Isc/A)	15.92	15.96	16.00	16.04	16.08
Module efficiency	22.8%	23.0%	23.1%	23.3%	23.5%

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

Rated output (Pmax/W)	678	683	688	693	698
Rated voltage (Vmpp/V)	40.70	40.90	41.10	41.30	41.50
Rated current (Impp/A)	16.65	16.69	16.75	16.79	16.83
Open circuit voltage (Voc/V)	48.70	48.90	49.10	49.30	49.50
Short-circuit current (Isc/A)	17.53	17.57	17.62	17.66	17.70

DIFFERENT REAR POWER GAINS (620W)

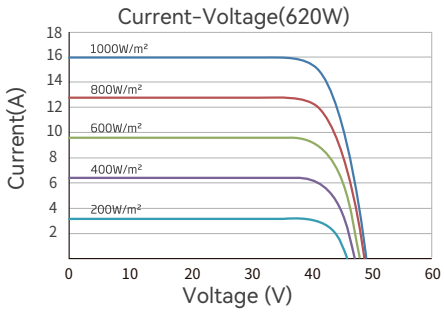
Power gains	Pmpp/Wp	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	651	40.90	15.92	48.90	16.76
15%	713	40.90	17.43	48.90	18.35
25%	775	40.90	18.95	48.90	19.95

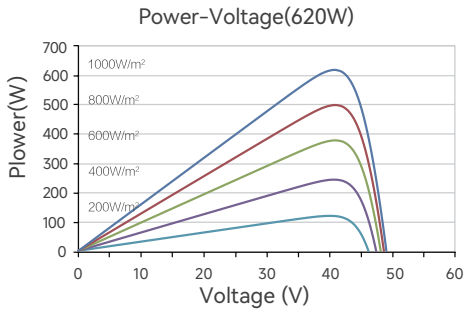
TEMPERATURE COEFFICIENT

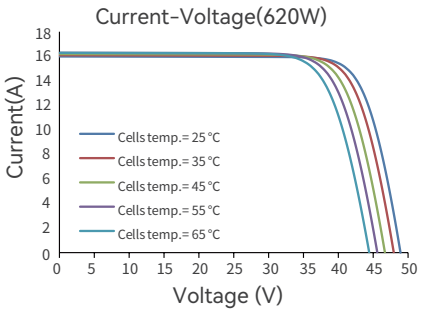
Temperature coefficient (Pmpp)	-0.28 %/℃
Temperature coefficient (Isc)	+0.043%/℃
Temperature coefficient (Voc)	-0.24%/℃
Nominal module operating temperature (NMOT)	42±2℃

OPERATING PARAMETERS

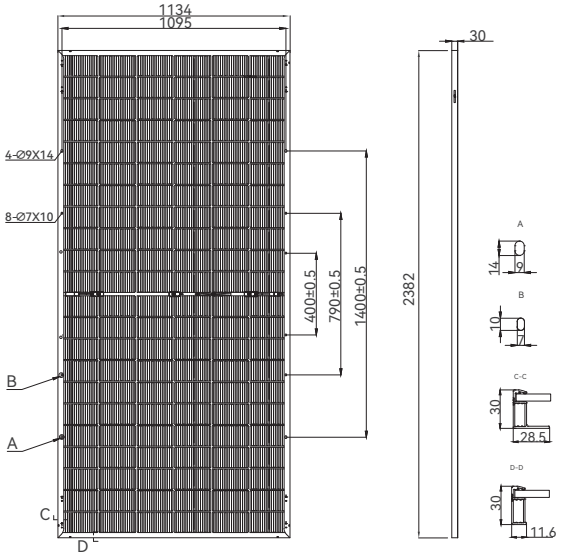
Max. system voltage (IEC)	1500VDC
Number of diodes	3
Junction box protection rating	IP 68
Max. series fuse rating	30A
Operational temperature	-40~+85℃
Bifaciality rate	80±5%







MECHANICAL PARAMETERS



Outer dimensions (L x W x H)	2382 x 1134 x 30 mm
Cell	N type mono-crystalline
Number of cells	132 (6*22)
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 mm² / 12 AWG
①Maximum test mechanical load	5400Pa (front) /2400Pa(rear)
Connector type (IEC)	PV-HYC11xyz(standard)/MC4 EVO2(optional)
Module weight	32.4 kg
Packaging unit	36 pcs / box
Weight of packing unit	1221 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 pratical testing. Power Measurement Tolerance ±3% under STC standard.