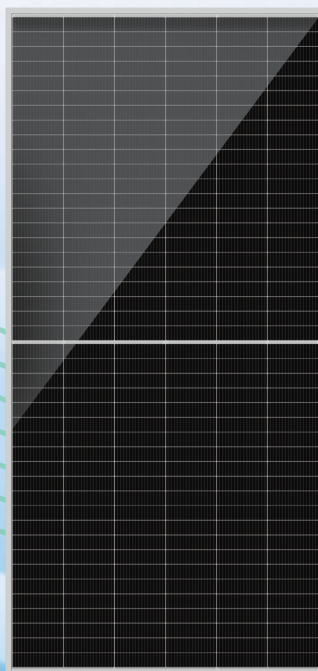


HT^{210R} TOPCon

Bifacial Series

650~670W

HY-NT11/66QGDF



Main Features



N-TYPE TOPCON TECH

- Lower LID
- Excellent Low Irradiance Performance



SMBB + 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 24.8%
- Bifaciality Rate Up to 85±5%



SUPERIOR POWER GENERATION PERFORMANCE

- Low Temperature Coefficient: $-0.26\%/^{\circ}\text{C}$
- Lower Operating Temperature

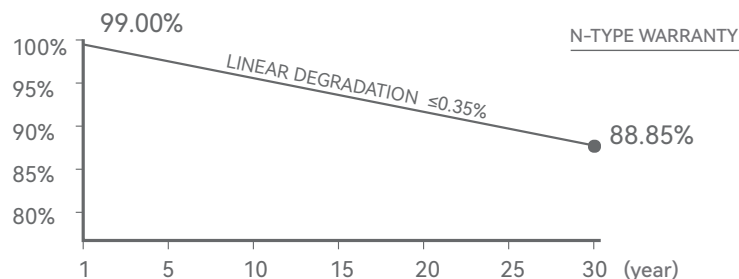


LOWER LEVELIZED COST OF ELECTRICITY

- Lower BOS and LCOE
- Higher ROI

Comprehensive Products and System Certificates

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



15 YEAR

Product Workmanship Warranty

30 YEAR

Linear Power Warranty

≤1%

First - year power attenuation

≤0.35%

Linear power attenuation



HONGYUAN GREEN ENERGY CO.,LTD.

© HONGYUAN GREEN ENERGY CO.,LTD. all rights reserved.
The product specifications are subject to change without prior notice.
Please use our latest version.



Group Headquarter: Building 7, Changguangxi Wetland Park, Lihu Avenue, Binhu District, Wuxi City, Jiangsu Province, China



Tel: +86 0510-8595 1888



E-mail: info@hysolar.com



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

N-Type Bifacial Series HY-NT11/66QGDF

650~670W
POWER RANGE

24.8%
EFFICIENCY

0~+5W
POWER SORTING

ELECTRICAL PERFORMANCE PARAMETERS

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

Rated output (Pmax/W)	650	655	660	665	670
Rated voltage (Vmpp/V)	43.10	43.30	43.50	43.70	43.90
Rated current (Impp/A)	15.10	15.15	15.19	15.24	15.28
Open circuit voltage (Voc/V)	50.00	50.20	50.40	50.60	50.80
Short-circuit current (Isc/A)	16.02	16.06	16.10	16.14	16.18
Module efficiency	24.1%	24.2%	24.4%	24.6%	24.8%

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

Rated output (Pmax/W)	721	727	732	738	743
Rated voltage (Vmpp/V)	43.10	43.30	43.50	43.70	43.90
Rated current (Impp/A)	16.73	16.79	16.83	16.89	16.93
Open circuit voltage (Voc/V)	50.00	50.20	50.40	50.60	50.80
Short-circuit current (Isc/A)	17.75	17.79	17.84	17.88	17.93

DIFFERENT REAR POWER GAINS (650W)

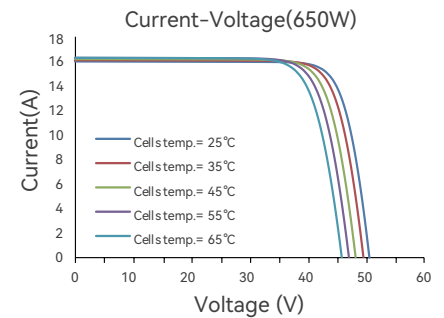
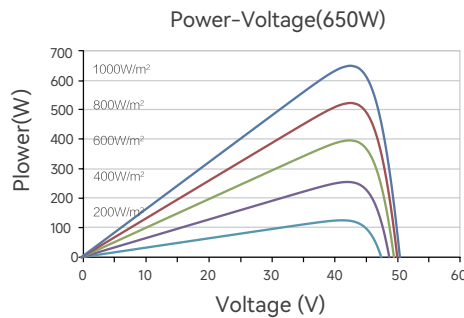
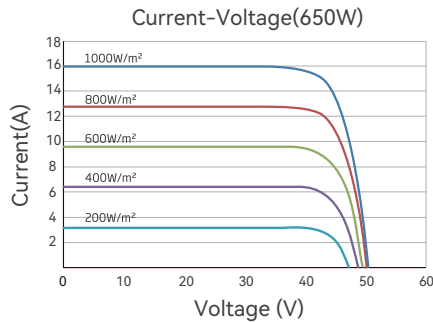
Power gains	Pmpp/Wp	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	683	43.10	15.84	50.00	16.82
15%	748	43.10	17.34	50.00	18.42
25%	813	43.10	18.85	50.00	20.03

TEMPERATURE COEFFICIENT

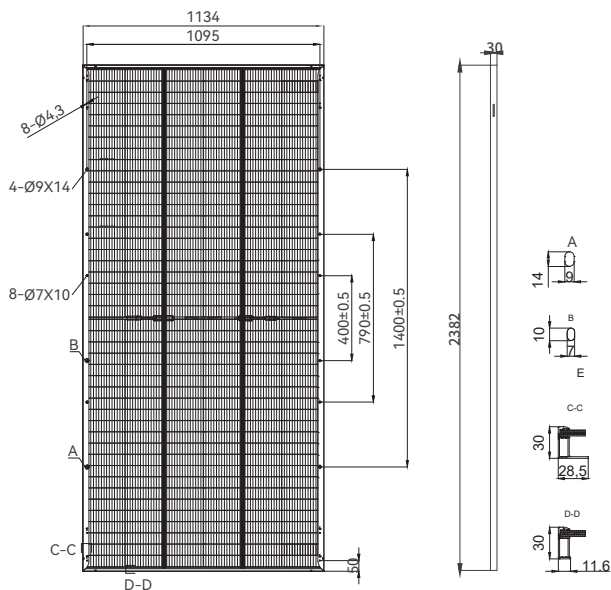
Temperature coefficient (Pmpp)	-0.26%/°C
Temperature coefficient (Isc)	+0.050%/°C
Temperature coefficient (Voc)	-0.20%/°C
Nominal module operating temperature (NMOT)	42±2°C

OPERATING PARAMETERS

Max. system voltage (IEC)	1500Vdc
Number of diodes	3
Junction box protection rating	IP 68
Max. series fuse rating	35A
Operational temperature	-40~+85°C
Bifaciality rate	85±5%



MECHANICAL PARAMETERS



Outer dimensions (L x W x H)	2382 x 1134 x 30 mm
Cell	N type mono-crystalline
Number of cells	264 (6*44)
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	32.4 kg
Packaging unit	36 pcs / box
Weight of packing unit	1221 kg / box
Modules per 40' HQ container	720 pcs