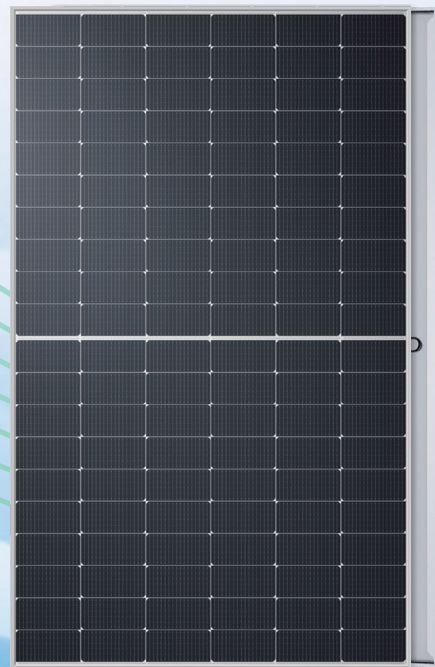


HT 210 TOPCon

Monofacial Series

640~660W

HY-NT12/60H



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%



SUPERIOR POWER GENERATION PERFORMANCE

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

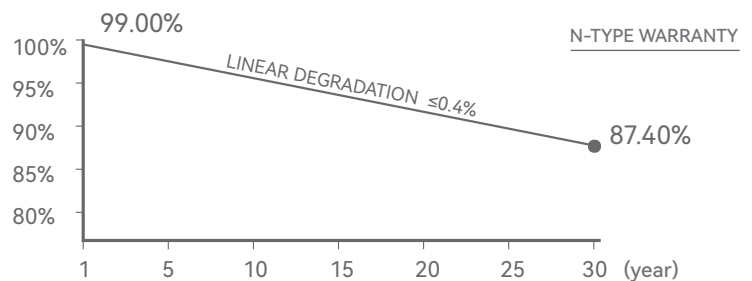


LOWER LEVELIZED COST OF ELECTRICITY

- Lower BOS and LCOE
- Higher ROI

Comprehensive Products and System Certificates

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



15 YEAR

Product Workmanship Warranty

30 YEAR

Linear Power Warranty

$\leq 1\%$

First - year power attenuation

$\leq 0.4\%$

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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E-mail: info@hysolar.com



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

N-Type Monofacial Series HY-NT12/60H

640~660W
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)	640	645	650	655	660
Rated voltage (Vmpp/V)	36.50	36.70	36.90	37.10	37.30
Rated current (Impp/A)	17.54	17.58	17.62	17.66	17.70
Open circuit voltage (Voc/V)	44.15	44.35	44.55	44.75	44.95
Short-circuit current (Isc/A)	18.30	18.34	18.38	18.42	18.46
Module efficiency	22.6%	22.8%	23.0%	23.1%	23.3%

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

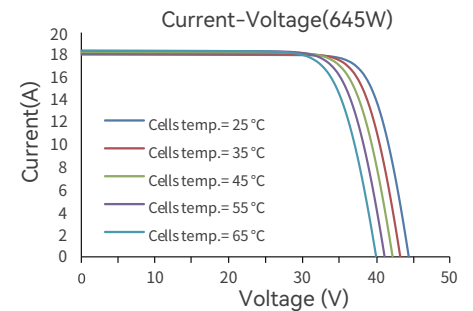
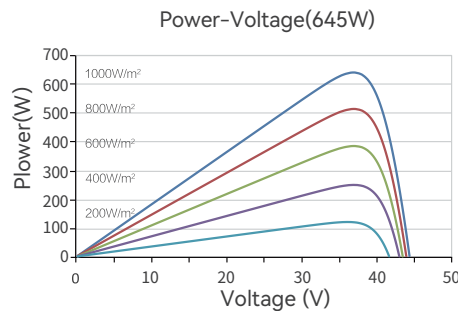
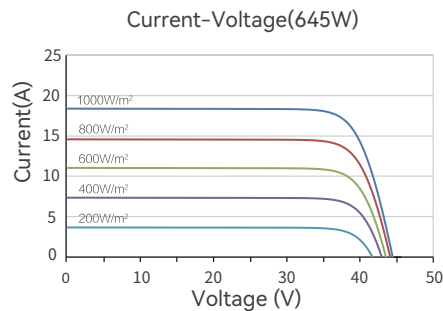
Rated output (Pmpp/Wp)	485.6	489.4	493.3	497.6	501.3
Rated voltage (Vmpp/V)	34.39	34.59	34.79	34.99	35.18
Rated current (Impp/A)	14.12	14.15	14.18	14.22	14.25
Open circuit voltage (Voc/V)	42.01	42.21	42.41	42.61	42.80
Short-circuit current (Isc/A)	14.79	14.83	14.87	14.91	14.94

TEMPERATURE COEFFICIENT

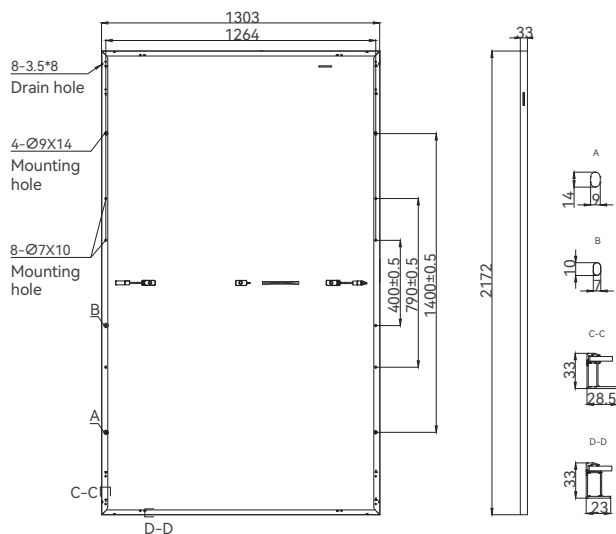
Temperature coefficient (Pmpp)	-0.29%/°C
Temperature coefficient (Isc)	+0.043%/°C
Temperature coefficient (Voc)	-0.24%/°C
Nominal module operating temperature (NMOT)	42±2°C

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



MECHANICAL PARAMETERS



Outer dimensions (L x W x H)	2172 x 1303 x 33 mm
Cell	N type mono-crystalline
Number of cells	120 (6*20)
Frame Type	Aluminum, silver anodized
Glass thickness	3.2 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	30.6 kg
Packaging unit	33 pcs / box
Weight of packing unit	1070 kg / box
Modules per 40' HQ container	594 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.