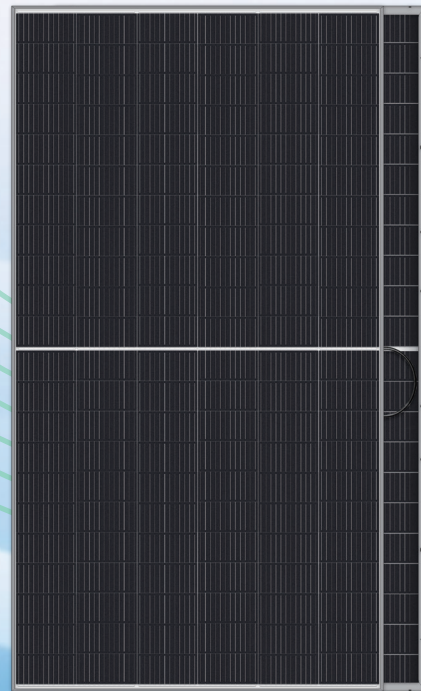


# HT<sup>210</sup> TOPCon

## Bifacial Series

# 705~725W

## HY-NT12/66GDF



### 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%
- Bifaciality Rate Up to 80-85%



#### SUPERIOR POWER GENERATION PERFORMANCE

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

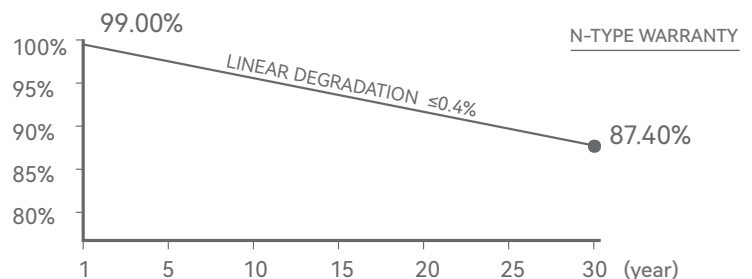


#### LOWER LEVELIZED COST OF ELECTRICITY

- 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

**≤1%**

First - year power attenuation

**≤0.4%**

Linear power attenuation



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# N-Type Bifacial Series HY-NT12/66GDF

**705~725W**  
POWER RANGE

**23.3%**  
EFFICIENCY

**0~+5W**  
POWER SORTING

## ELECTRICAL PERFORMANCE PARAMETERS

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

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Rated output (Pmpp/Wp)        | 705   | 710   | 715   | 720   | 725   |
| Rated voltage (Vmpp/V)        | 40.27 | 40.47 | 40.67 | 40.87 | 41.07 |
| Rated current (Impp/A)        | 17.51 | 17.55 | 17.59 | 17.62 | 17.66 |
| Open circuit voltage (Voc/V)  | 48.66 | 48.86 | 49.06 | 49.26 | 49.46 |
| Short-circuit current (Isc/A) | 18.34 | 18.38 | 18.42 | 18.46 | 18.50 |
| Module efficiency             | 22.7% | 22.9% | 23.0% | 23.2% | 23.3% |

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

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Rated output (Pmpp/Wp)        | 534.8 | 538.6 | 542.5 | 546.3 | 550.2 |
| Rated voltage (Vmpp/V)        | 37.93 | 38.12 | 38.31 | 38.50 | 38.69 |
| Rated current (Impp/A)        | 14.10 | 14.13 | 14.16 | 14.19 | 14.22 |
| Open circuit voltage (Voc/V)  | 46.32 | 46.52 | 46.72 | 46.92 | 47.12 |
| Short-circuit current (Isc/A) | 14.76 | 14.79 | 14.82 | 14.85 | 14.88 |

## DIFFERENT REAR POWER GAINS ( 715W )

| Power gains | Pmpp/Wp | Vmpp/V | Impp/A | Voc/V | Isc/A |
|-------------|---------|--------|--------|-------|-------|
| 5%          | 751     | 40.67  | 18.46  | 49.06 | 19.34 |
| 15%         | 822     | 40.67  | 20.22  | 49.06 | 21.18 |
| 25%         | 894     | 40.67  | 21.98  | 49.06 | 23.03 |

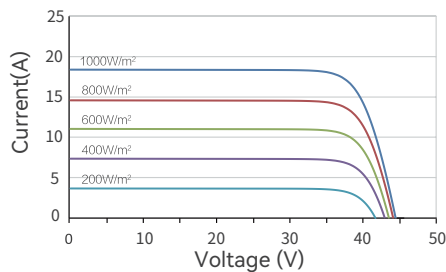
## TEMPERATURE COEFFICIENT

|                                             |            |
|---------------------------------------------|------------|
| 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     |

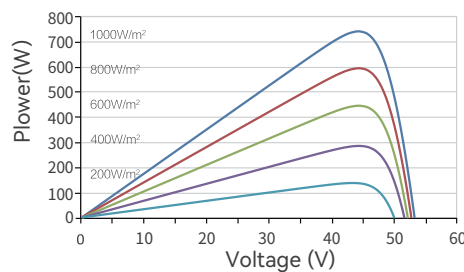
## OPERATING PARAMETERS

|                                |           |
|--------------------------------|-----------|
| Max. system voltage (IEC)      | 1500Vdc   |
| Number of diodes               | 3         |
| Junction box protection rating | IP 68     |
| Max. series fuse rating        | 35A       |
| Operational temperature        | -40~+85°C |
| Bifaciality rate               | 80±5%     |

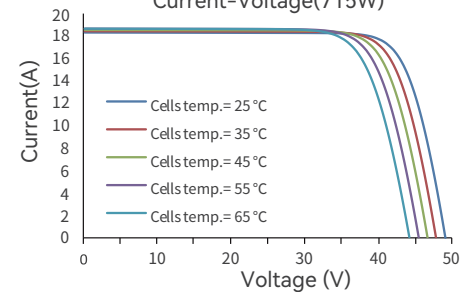
Current-Voltage(715W)



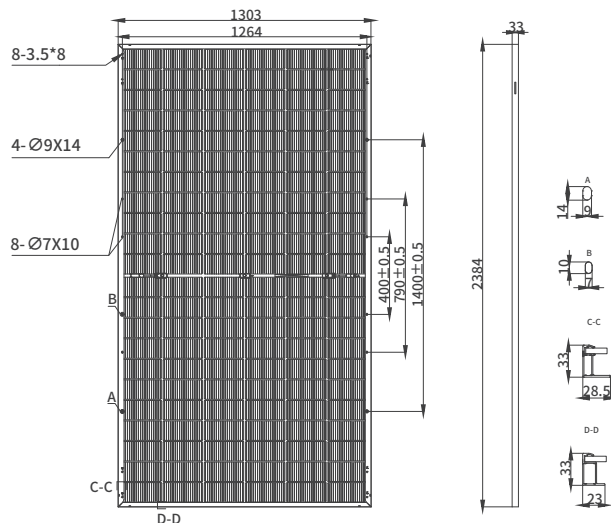
Power-Voltage(715W)



Current-Voltage(715W)



## MECHANICAL PARAMETERS



|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| Outer dimensions (L x W x H)       | 2384 x 1303 x 33 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;<br>Customized length |
| Cable cross-sectional area (IEC)   | 4 mm <sup>2</sup> / 12 AWG                              |
| ① Maximum test mechanical load     | 5400Pa (front) /2400Pa(rear)                            |
| Connector type (IEC)               | PV-HYC11xyz(standard)/MC4 EVO2(optional)                |
| Module weight                      | 38.3kg                                                  |
| Packaging unit                     | 33 pcs / box                                            |
| Weight of packing unit             | 1334 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.