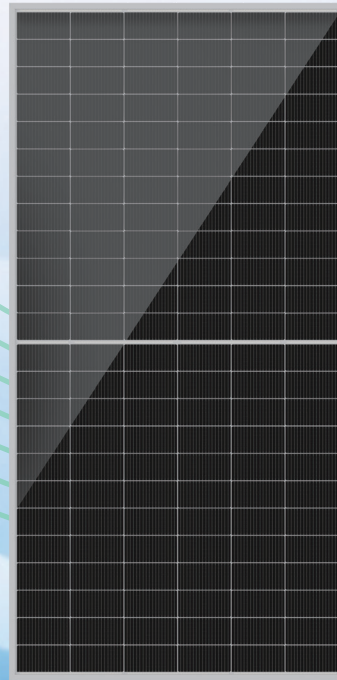


# HT<sup>182</sup> TOPCon

## Bifacial Series

# 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

#### HIGH RELIABILITY

- Salt Mist Resistance, Ammonia Resistance
- Sand & Dust Resistance
- Anti-PID

#### HIGH CONVERSION EFFICIENCY

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

#### SUPERIOR POWER GENERATION PERFORMANCE

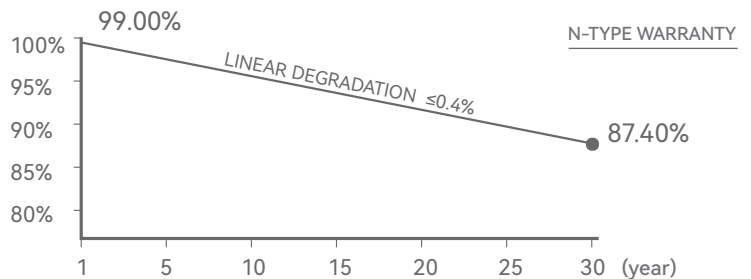
- Low Temperature Coefficient:  $-0.28\%/^{\circ}\text{C}$
- Lower Operating Temperature

#### 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



**15** YEAR  
Product Workmanship Warranty

**30** YEAR  
Linear Power Warranty

**≤1%**  
First - year power attenuation

**≤0.4%**  
Linear power attenuation



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Please use our latest version.

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**ELECTRICAL PERFORMANCE PARAMETERS**

**\*STC :** Irradiance 1000W/m<sup>2</sup>, 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/m<sup>2</sup>, Back irradiance135W/m<sup>2</sup>, 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 |

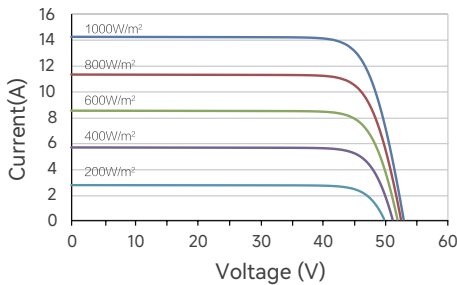
**TEMPERATURE COEFFICIENT**

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

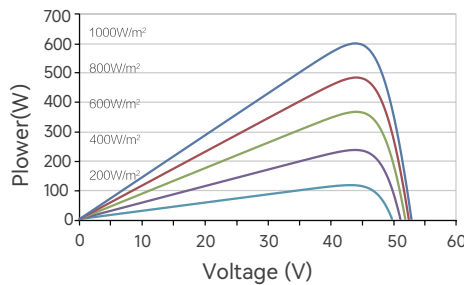
**OPERATING PARAMETERS**

|                                |           |
|--------------------------------|-----------|
| 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%     |

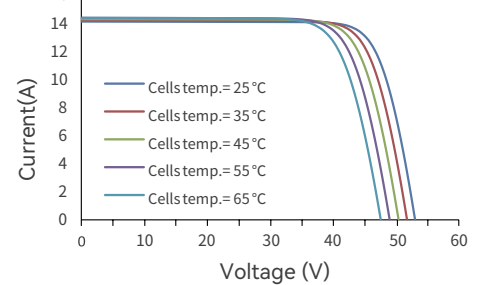
Current-Voltage(600W)



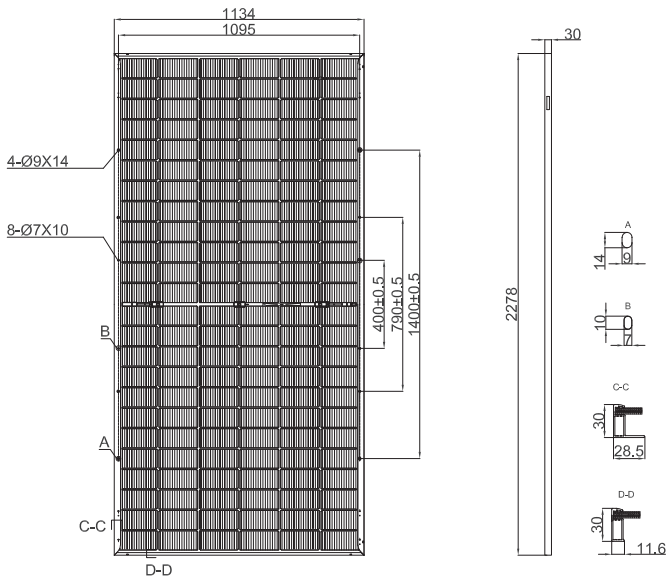
Power-Voltage(600W)



Current-Voltage(600W)



**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;<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                      | 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.