








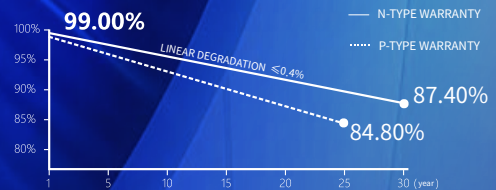



# 625~645W

## HY-NT12/60H



-  Module Efficiency up to 22.8%
-  Zero LID
-  SMBB + Half-cell tech, reduce internal current loss, improve module efficiency, minimize micro-crack impacts, and improve module reliability
-  Non-destructive Slicing Tech, reduce micro-crack risk
-  Lower temperature coefficient (-0.29%/°C), lower operating temperature, increase the power generation
-  Excellent low irradiance performance, higher power output
-  Resistant to harsh environments
-  Anti PID
-  More energy yield, lower BOS and LCOE



-  15-YEAR PRODUCT WORKMANSHIP WARRANTY
-  30-YEAR LINEAR POWER WARRANTY

### Comprehensive Products and System Certificates

IEC 61215, IEC 61730  
 ISO 9001:2015 Quality management systems  
 ISO 14001:2015 Environmental management systems  
 ISO 45001:2018 Occupational health and safety management systems



## Electrical performance parameters

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

|                                 |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|
| Rated output (Pmpp / Wp)        | 625   | 630   | 635   | 640   | 645   |
| Rated voltage (Vmpp / V)        | 35.90 | 36.10 | 36.30 | 36.50 | 36.70 |
| Rated current (Impp / A)        | 17.41 | 17.46 | 17.50 | 17.54 | 17.58 |
| Open circuit voltage (Voc / V)  | 43.55 | 43.75 | 43.95 | 44.15 | 44.35 |
| Short-circuit current (Isc / A) | 18.18 | 18.22 | 18.26 | 18.30 | 18.34 |
| Module efficiency               | 22.1% | 22.3% | 22.4% | 22.6% | 22.8% |
| Power tolerance                 | 0~+5W |       |       |       |       |

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

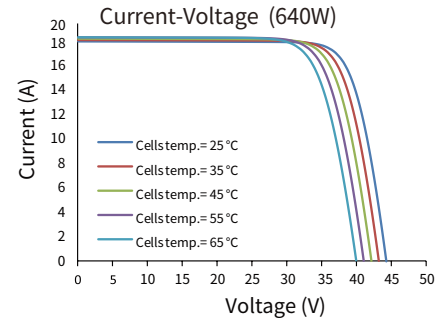
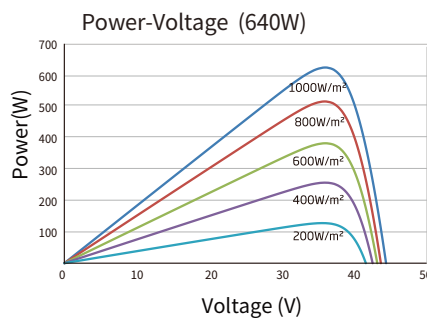
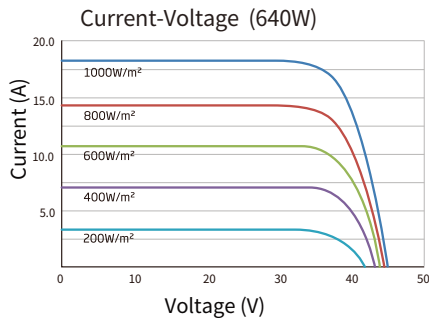
|                                 |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|
| Rated output (Pmpp / Wp)        | 473.7 | 477.9 | 481.7 | 485.6 | 489.4 |
| Rated voltage (Vmpp / V)        | 33.79 | 33.99 | 34.19 | 34.39 | 34.59 |
| Rated current (Impp / A)        | 14.02 | 14.06 | 14.09 | 14.12 | 14.15 |
| Open circuit voltage (Voc / V)  | 41.41 | 41.61 | 41.81 | 42.01 | 42.21 |
| Short-circuit current (Isc / A) | 14.67 | 14.71 | 14.75 | 14.79 | 14.83 |

## Temperature Ratings (STC)

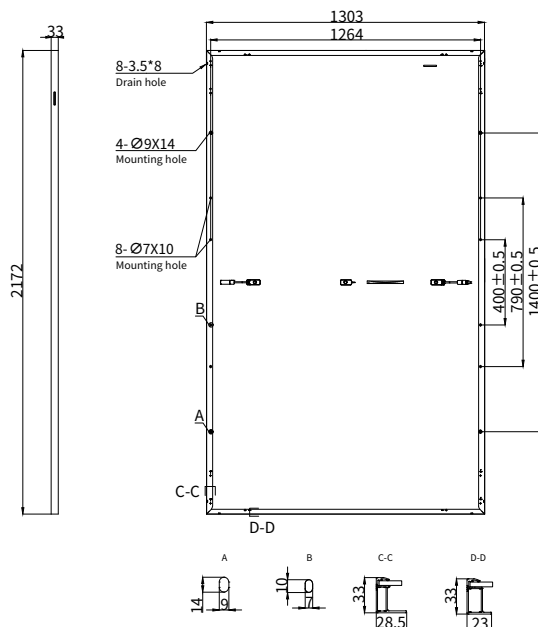
|   |            |
|---|------------|
| Temperature coefficient (Pmpp)              | -0.29%/°C  |
| Temperature coefficient (Isc)               | +0.043%/°C |
| Temperature coefficient (Voc)               | -0.24%/°C  |
| Nominal module operating temperature (NMOT) | 42±2°C     |

## Operating Parameters

|                           |                     |
|---------------------------|---------------------|
| Max. system voltage (IEC) | 1500V <sub>DC</sub> |
| Number of diodes          | 3                   |
| Junction box IP rating    | IP 68               |
| Max. series fuse rating   | 30A                 |
| Operational temperature   | -40~+85°C           |



## Mechanical parameters



|                                    |  |
|------------------------------------|--|
| Outer dimensions (L x W x H)       | 2172x 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;<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                      | 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.