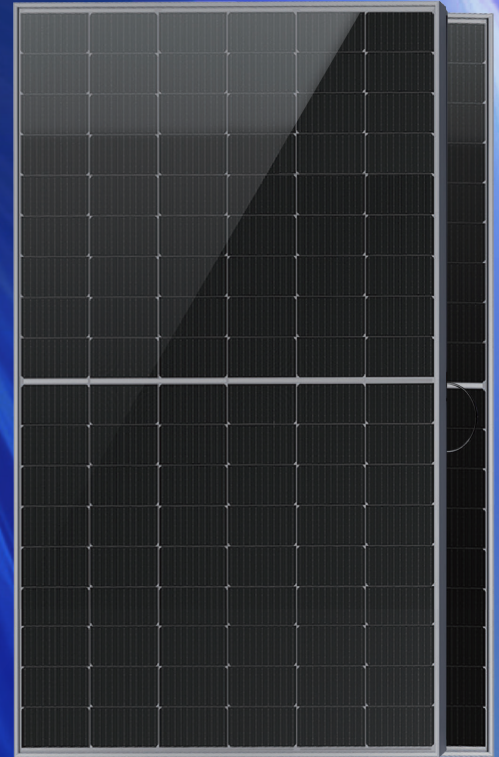










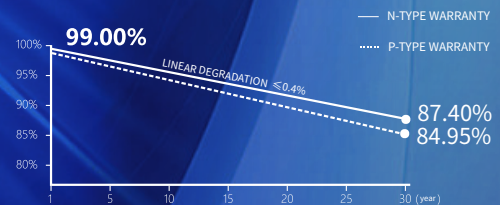


490~510W

HY-NT11/54GDF



-  Module Efficiency up to 22.9%
-  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
-  85% Bifaciality rate up to 80-85%, and up to 30% power gain from back side (depending on albedo)
-  Resistant to harsh environments
-  Anti PID
-  More energy yield, lower BOS and LCOE



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

Subject to the terms and conditions contained in the applicable HY Solar Limited Warranty Statement. Also this 30-year limited product warranty is available only for products installed and operating on residential rooftops in certain regions.

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/m², Cell Temperature 25° C, AM=1.5

| | 490 | 495 | 500 | 505 | 510 |
|---|-------|-------|-------|-------|-------|
| Rated output (P _{mpp} / Wp) | 490 | 495 | 500 | 505 | 510 |
| Rated voltage (V _{mpp} / V) | 33.01 | 33.21 | 33.41 | 33.61 | 33.81 |
| Rated current (I _{mpp} / A) | 14.85 | 14.91 | 14.97 | 15.03 | 15.09 |
| Open circuit voltage (V _{oc} / V) | 39.32 | 39.52 | 39.72 | 39.92 | 40.12 |
| Short-circuit current (I _{sc} / A) | 15.72 | 15.77 | 15.82 | 15.87 | 15.92 |
| Module efficiency | 22.0% | 22.2% | 22.5% | 22.7% | 22.9% |
| Power tolerance | 0~+5W | | | | |

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

| | 374.5 | 378.8 | 383.1 | 387.4 | 391.8 |
|---|-------|-------|-------|-------|-------|
| Rated output (P _{mpp} / Wp) | 374.5 | 378.8 | 383.1 | 387.4 | 391.8 |
| Rated voltage (V _{mpp} / V) | 30.95 | 31.15 | 31.35 | 31.55 | 31.75 |
| Rated current (I _{mpp} / A) | 12.10 | 12.16 | 12.22 | 12.28 | 12.34 |
| Open circuit voltage (V _{oc} / V) | 37.15 | 37.35 | 37.55 | 37.75 | 37.95 |
| Short-circuit current (I _{sc} / A) | 12.68 | 12.73 | 12.78 | 12.83 | 12.88 |

Different rear power gains (500W as an example)

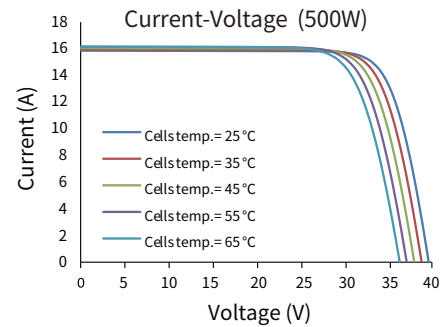
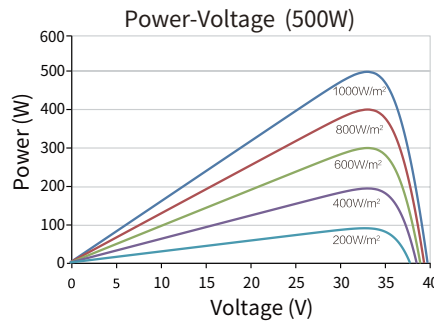
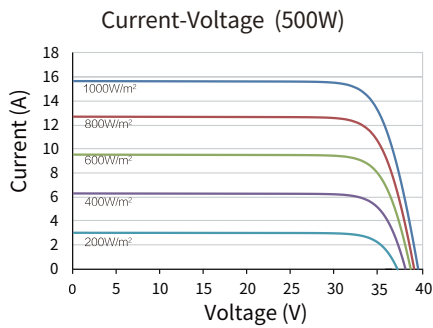
| Power gains P _{mpp} / Wp | V _{mpp} /V | I _{mpp} /A | V _{oc} / V | I _{sc} /A | |
|-----------------------------------|---------------------|---------------------|---------------------|--------------------|-------|
| 5% | 525 | 33.41 | 15.71 | 39.72 | 16.61 |
| 15% | 575 | 33.41 | 17.21 | 39.72 | 18.19 |
| 25% | 625 | 33.41 | 18.71 | 39.72 | 19.78 |

Temperature coefficient

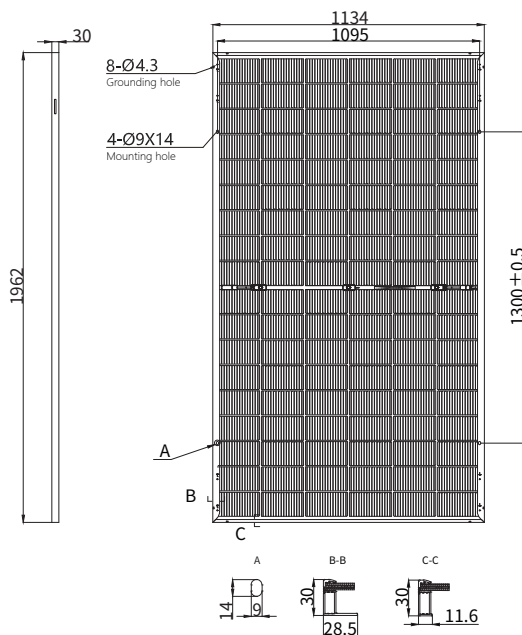
| | |
|---|------------|
| Temperature coefficient (P _{mpp}) | -0.29%/°C |
| Temperature coefficient (I _{sc}) | +0.043%/°C |
| Temperature coefficient (V _{oc}) | -0.24%/°C |
| Nominal module operating temperature (NMOT) | 42±2°C |

Operating parameters

| | |
|--------------------------------|---------------------|
| Max. system voltage (IEC) | 1500V _{oc} |
| Number of diodes | 3 |
| Junction box protection rating | IP 68 |
| Max. series fuse rating | 30 A |
| Operational temperature | -40~+85°C |
| Bifaciality rate | 80±5% |



Mechanical parameters



| | |
|---|--|
| Outer dimensions (L x W x H) | 1962×1134×30mm |
| Cell | N type mono-crystalline |
| Number of cells | 108 (6*18) |
| 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 | 27.4 kg |
| Packaging unit | 36 pcs / box |
| Weight of packing unit | 1042 kg / box |
| Modules per 40' HQ container | 864 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.