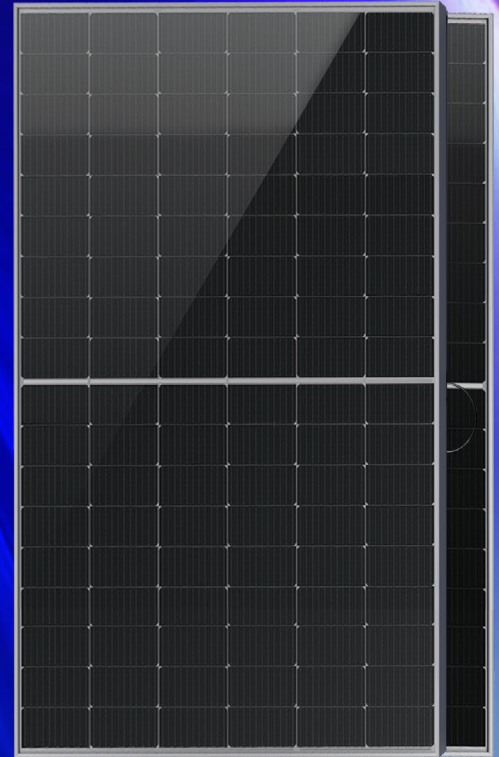










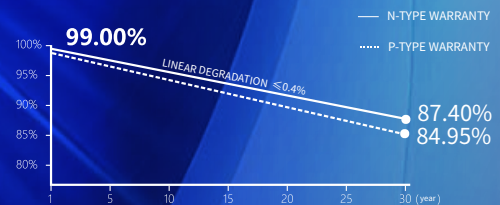


480~500W

HY-NT11/54GDF



-  Module Efficiency up to 22.5%
-  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

	480	485	490	495	500
Rated output (P _{mpp} / Wp)					
Rated voltage (V _{mpp} / V)	32.61	32.81	33.01	33.21	33.41
Rated current (I _{mpp} / A)	14.72	14.79	14.85	14.91	14.97
Open circuit voltage (V _{oc} / V)	38.92	39.12	39.32	39.52	39.72
Short-circuit current (I _{sc} / A)	15.62	15.67	15.72	15.77	15.82
Module efficiency	21.6%	21.8%	22.0%	22.2%	22.5%
Power tolerance	0~+5W				

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

	366.0	370.2	374.5	378.8	383.1
Rated output (P _{mpp} / Wp)					
Rated voltage (V _{mpp} / V)	30.55	30.75	30.95	31.15	31.35
Rated current (I _{mpp} / A)	11.98	12.04	12.10	12.16	12.22
Open circuit voltage (V _{oc} / V)	36.75	36.95	37.15	37.35	37.55
Short-circuit current (I _{sc} / A)	12.58	12.63	12.68	12.73	12.78

Different rear power gains (500W as an example)

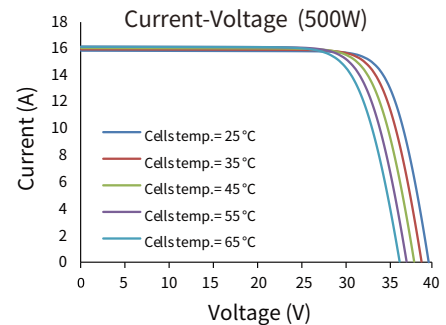
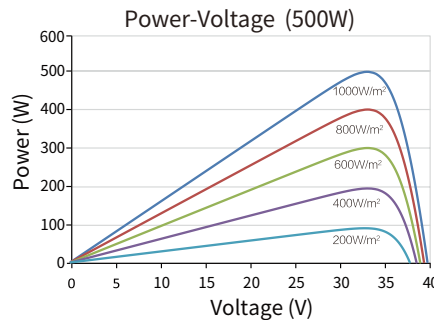
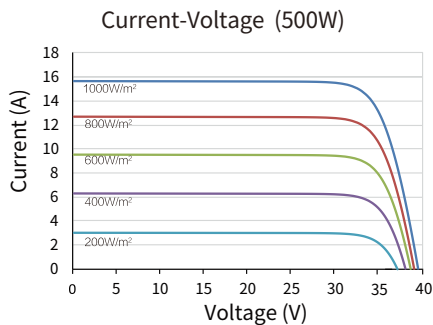
Power gains P _{mpp} / Wp	V _{mpp} /V	I _{mpp} /A	V _{oc} / V	I _{sc} /A	
5%	525	33.41	15.71	39.72	16.61
15%	575	33.41	17.21	39.72	18.19
25%	625	33.41	18.71	39.72	19.78

Temperature coefficient

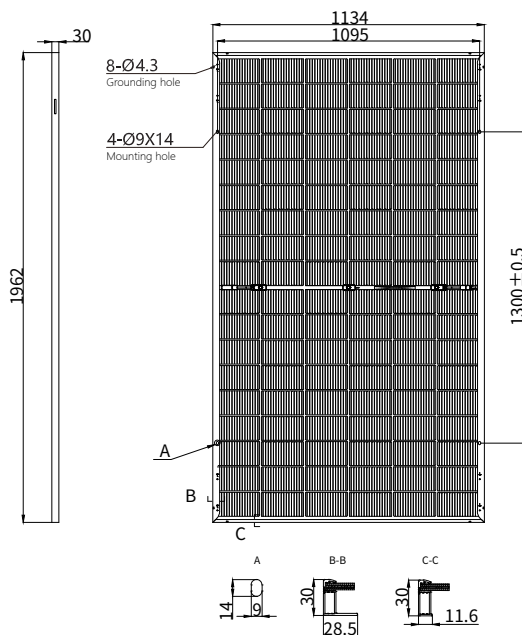
Temperature coefficient (P _{mpp})	-0.29%/°C
Temperature coefficient (I _{sc})	+0.043%/°C
Temperature coefficient (V _{oc})	-0.24%/°C
Nominal module operating temperature (NMOT)	42±2°C

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	792 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.