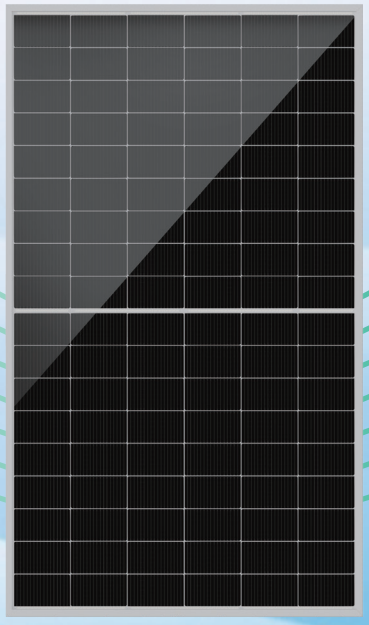
HY SOLAR

HT 210R TOPCon Bifacial Series

505~525W

HY-NT11/54GDF



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

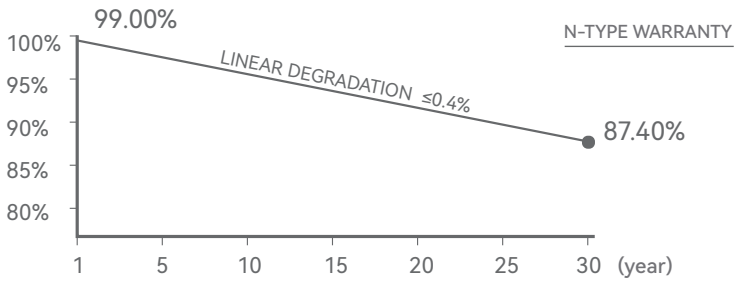
- Low Temperature Coefficient: -0.28%/°C
- Lower Operating Temperature

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



25 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-NT11/54GDF

505~525W POWER RANGE | **23.6%** EFFICIENCY | **0~+5W** POWER SORTING

ELECTRICAL PERFORMANCE PARAMETERS

***STC :** Irradiance 1000W/m², Cell Temperature 25° C, AM=1.5

Rated output (Pmax/W)	505	510	515	520	525
Rated voltage (Vmpp/V)	33.61	33.81	34.01	34.21	34.41
Rated current (Impp/A)	15.03	15.09	15.15	15.21	15.26
Open circuit voltage (Voc/V)	39.92	40.12	40.32	40.52	40.72
Short-circuit current (Isc/A)	15.87	15.92	15.97	16.02	16.07
Module efficiency	22.7%	22.9%	23.1%	23.4%	23.6%

BNPI : Front irradiance1000W/m², Back irradiance135W/m², Cell Temperature 25° C, AM=1.5

Rated output (Pmax/W)	553.2	558.2	563.2	568.2	573.3
Rated voltage (Vmpp/V)	33.61	33.81	34.01	34.21	34.41
Rated current (Impp/A)	16.46	16.51	16.56	16.61	16.66
Open circuit voltage (Voc/V)	39.92	40.12	40.32	40.52	40.72
Short-circuit current (Isc/A)	17.47	17.53	17.58	17.64	17.69

DIFFERENT REAR POWER GAINS (510W)

Power gains	Pmpp/Wp	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	536	33.81	15.84	40.12	16.72
15%	587	33.81	17.35	40.12	18.31
25%	638	33.81	18.86	40.12	19.90

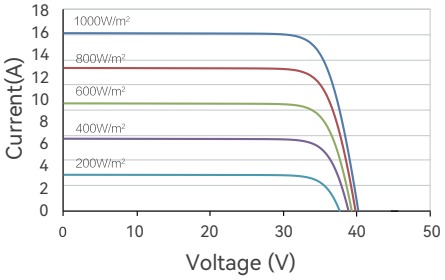
TEMPERATURE COEFFICIENT

Temperature coefficient (Pmpp)	-0.28%/℃
Temperature coefficient (Isc)	+0.043%/℃
Temperature coefficient (Voc)	-0.24%/℃
Nominal module operating temperature (NMOT)	42±2℃

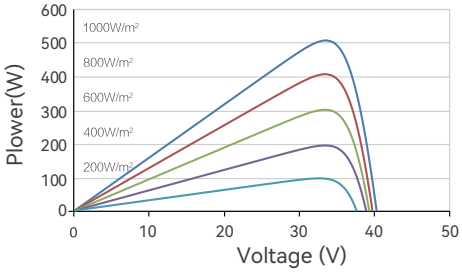
OPERATING PARAMETERS

Max. system voltage (IEC)	1500VDC
Number of diodes	3
Junction box protection rating	IP 68
Max. series fuse rating	30A
Operational temperature	-40~+85℃
Bifaciality rate	80±5%

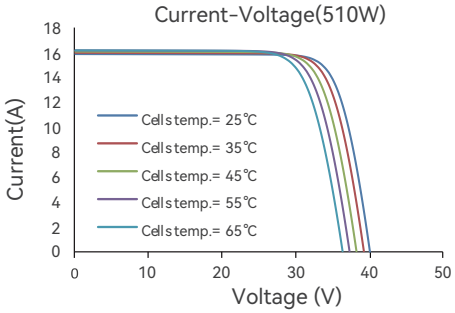
Current-Voltage(510W)



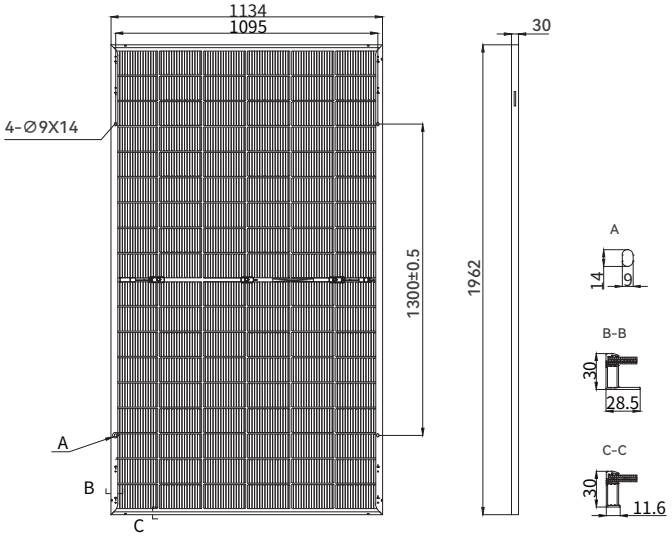
Power-Voltage(510W)



Current-Voltage(510W)



MECHANICAL PARAMETERS



Outer dimensions (L x W x H)	1962 x 1134 x 30 mm
Cell	N type mono-crystalline
Number of cells	108 (6*18)
Frame Type	Aluminum, silver/black 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 mm² / 12 AWG
①Maximum test mechanical load	5400Pa (front) /2400Pa(rear)
Connector type (IEC)	PV-HYC11xyz(standard)/MC4 EVO2(optional)
Module weight	27 kg
Packaging unit	36 pcs / box
Weight of packing unit	1021 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 pratical testing. Power Measurement Tolerance ±3% under STC standard.