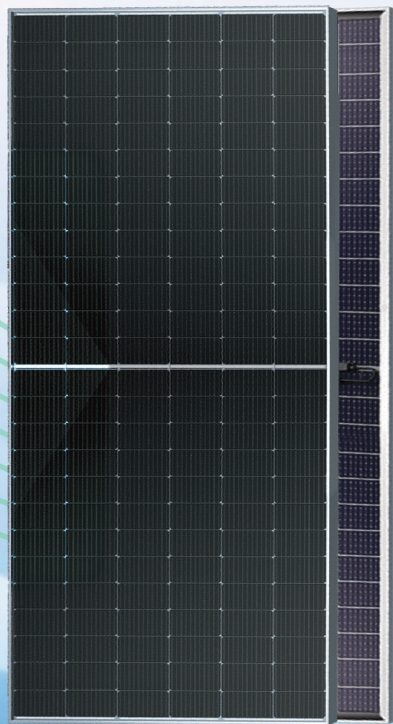


HT¹⁸² TOPCon

Bifacial Series

630~655W

HY-NT10/78GDF



Main Features

N-TYPE TOPCON TECH

- Lower LID
- Excellent Low Irradiance Performance

SMBB + HALF-CELL TECH 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 23.4%
- Bifaciality Rate Up to 80-85%

SUPERIOR POWER GENERATION PERFORMANCE

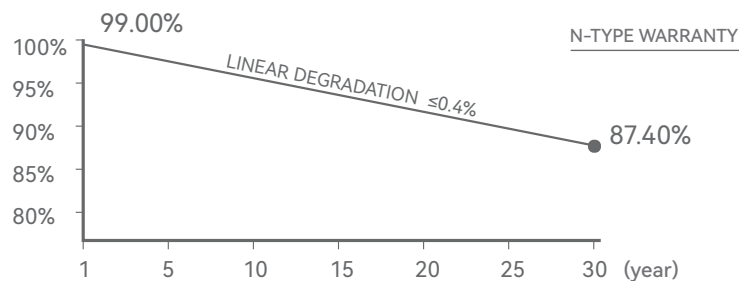
- Low Temperature Coefficient: $-0.29\%/^{\circ}\text{C}$
- Lower Operating Temperature

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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The product specifications are subject to change without prior notice.
Please use our latest version.

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N-Type Bifacial Series HY-NT10/78GDF

630~655W
POWER RANGE

23.4%
EFFICIENCY

0~+5W
POWER SORTING

ELECTRICAL PERFORMANCE PARAMETERS

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

Rated output (Pmpp/Wp)	630	635	640	645	650	655
Rated voltage (Vmpp/V)	46.57	46.75	46.95	47.15	47.35	47.55
Rated current (Impp/A)	13.53	13.59	13.64	13.68	13.73	13.78
Open circuit voltage (Voc/V)	56.41	56.61	56.81	57.01	57.21	57.41
Short-circuit current (Isc/A)	14.11	14.17	14.21	14.25	14.29	14.33
Module efficiency	22.5%	22.7%	22.9%	23.1%	23.3%	23.4%

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

Rated output (Pmpp/Wp)	469.0	473.1	476.7	480.3	483.9	487.5
Rated voltage (Vmpp/V)	43.31	43.48	43.65	43.82	43.99	44.16
Rated current (Impp/A)	10.83	10.88	10.92	10.96	11.00	11.04
Open circuit voltage (Voc/V)	53.58	53.77	53.96	54.15	54.34	54.53
Short-circuit current (Isc/A)	11.29	11.34	11.38	11.42	11.46	11.50

DIFFERENT REAR POWER GAINS (635W)

Power gains	Pmpp/Wp	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	667	46.75	14.26	56.61	14.88
15%	730	46.75	15.62	56.61	16.30
25%	794	46.75	16.98	56.61	17.71

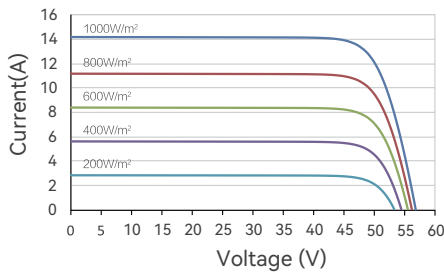
TEMPERATURE COEFFICIENT

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

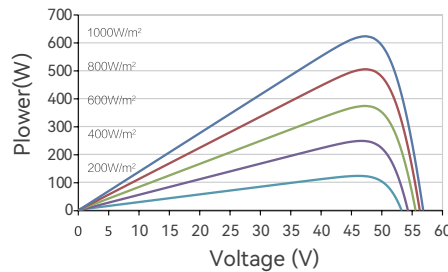
OPERATING PARAMETERS

Max. system voltage (IEC)	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%

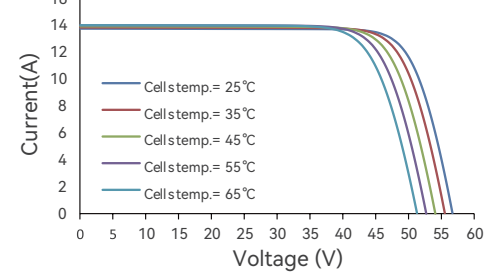
Current-Voltage(635W)



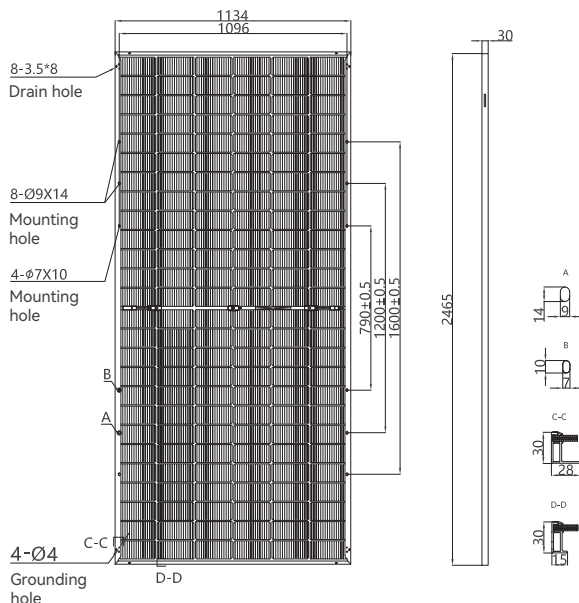
Power-Voltage(635W)



Current-Voltage(635W)



MECHANICAL PARAMETERS



Outer dimensions (L x W x H)	2465 x 1134 x 30 mm
Cell	N type mono-crystalline
Number of cells	156 (6*26)
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	34.7 kg
Packaging unit	36 pcs / box
Weight of packing unit	1302 kg / box
Modules per 40' HQ container	576 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.