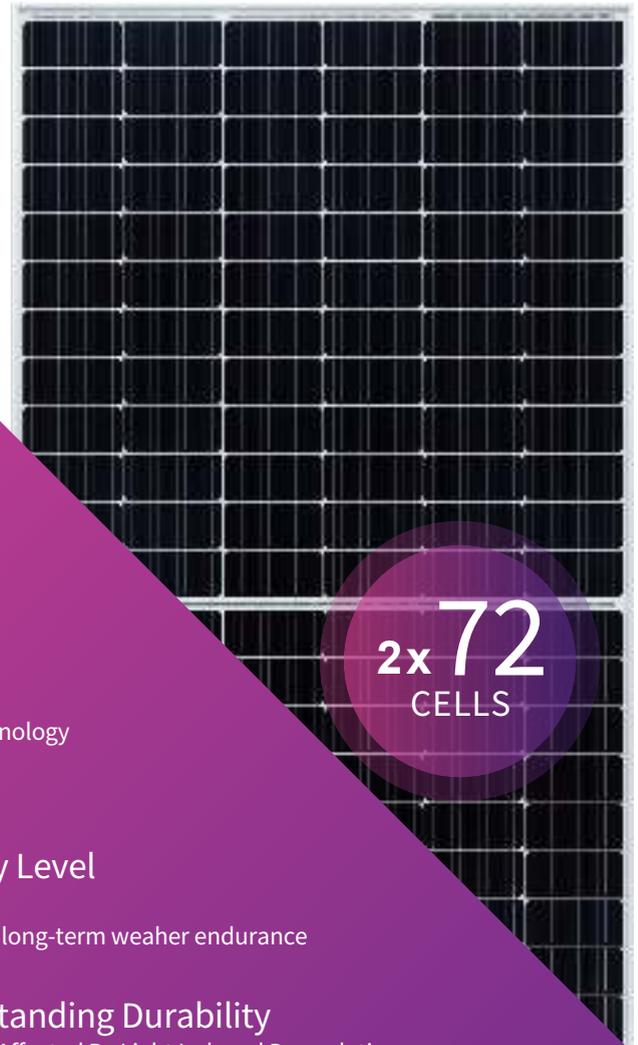


GIWA 3

Bifacial TOPCon Solar Module (half-cut)

560-580W



Higher Power Output

The output power is as high as 580W
Provide up to 25% extra power from rear side



Less Loss

Innovative non-destructive cutting technology
/reducing the risk of hidden cracks
Promise a higher yield for PV system



Enhanced Safety Level

Passed Fire test Class A
IP68 water resistant for long-term weaher endurance



Outstanding Durability

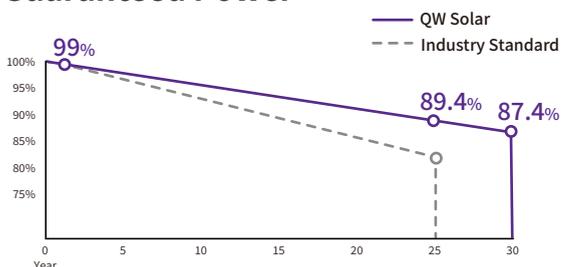
Rarely Affected By Light Induced Degradation
Resistant to harsh environments such as salt mist, sand
and dust, ammonia gas, etc.



Excellent Linear Power Warranty

Average annual degradation below 0.4% from
2nd year to 30th year.
At least 5.0% higher power output than P-type
module after 25 years.

Guaranteed Power

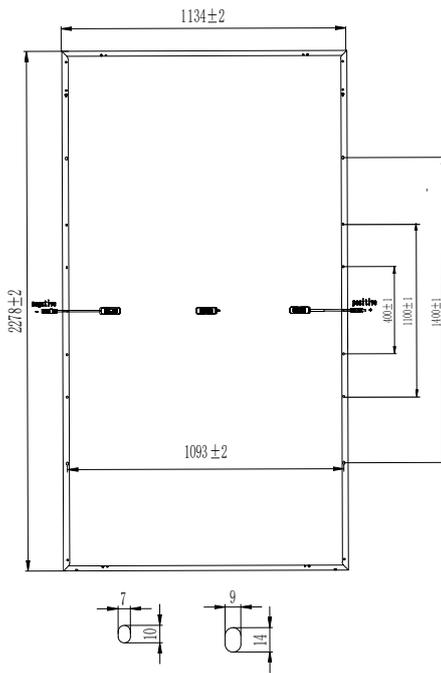


15 years Product Warranty | **30 years** Linear Performance Warranty

EN EN-20230731



TECHNICAL DRAWINGS



ELECTRICAL CHARACTERISTICS

Model/QWBDT144-	560W	565W	570W	575W	580W
Testing Condition: STC Maximum Power (Pmax/W)	560	565	570	575	580
Operating Voltage (Vmpp/V)	41.95	42.14	42.29	42.44	42.59
Operating Current (Imp/A)	13.35	13.41	13.48	13.55	13.62
Open-Circuit Voltage (Voc/V)	50.67	50.87	51.07	51.27	51.47
Short-Circuit Current (Isc/A)	14.13	14.19	14.25	14.31	14.37
Module Efficiency (%)	21.68	21.87	22.07	22.26	22.45

STC: Irradiance 1000W/m², Spectra at AM1.5, Cell Temperature 25°C.
Power Output Tolerance: 0~+5W, Test Uncertainty for Pmax: ±3%

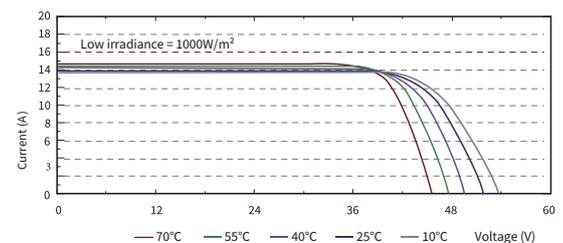
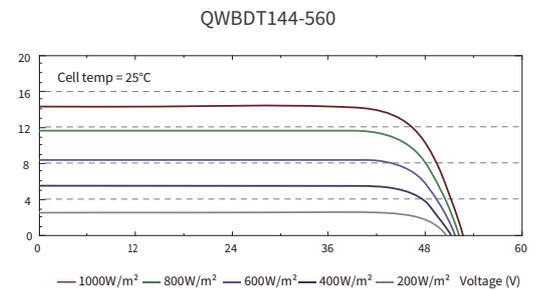
REAR SUDE POWER GAIN(REFERENCE TO 560W FRONT)

Pmax Gain	5%	10%	15%	20%	25%
Pmax/W	589	618	644	672	700
Vmpp/V	42.05	42.05	41.95	41.95	41.95
Imp/A	14.02	14.69	15.35	16.02	16.69
Voc/V	50.56	50.67	51.67	51.67	51.67
Isc/A	14.84	15.54	16.25	16.96	17.66

MECHANICAL CHARACTERISTICS

Solar Cell	Mono-Crystalline Silicon 182*91mm
No. of Cells	144(6*24)
Module Dimensions	2278*1134*30mm(89.69*44.65*1.18inches)
Weight	32.3kg
Front Glass	2.0mm AR Coating Semi-tempered tempered Glass
Back Glass	2.0mm White Grid Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm ² , 300mm(+)/300mm(-) or Customized Length
Connectors	MC4

I-V CURVE



APPLICATION CONDITIONS

Maximun System Voltage	DC1500V
Operating Temperature	-40°C~+85°C
Maximun Series Fuse	30A
Safety Protection Class	Class II
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	80%±5%

TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Module Operating Temperature (NOCT)	42±2°C

PACKING CONFIGURATION

Type of Shipping	Platform Trailer (17.5m)	Container 40'HC
Pieces/Pallet	36	36
Total Amout	900	720