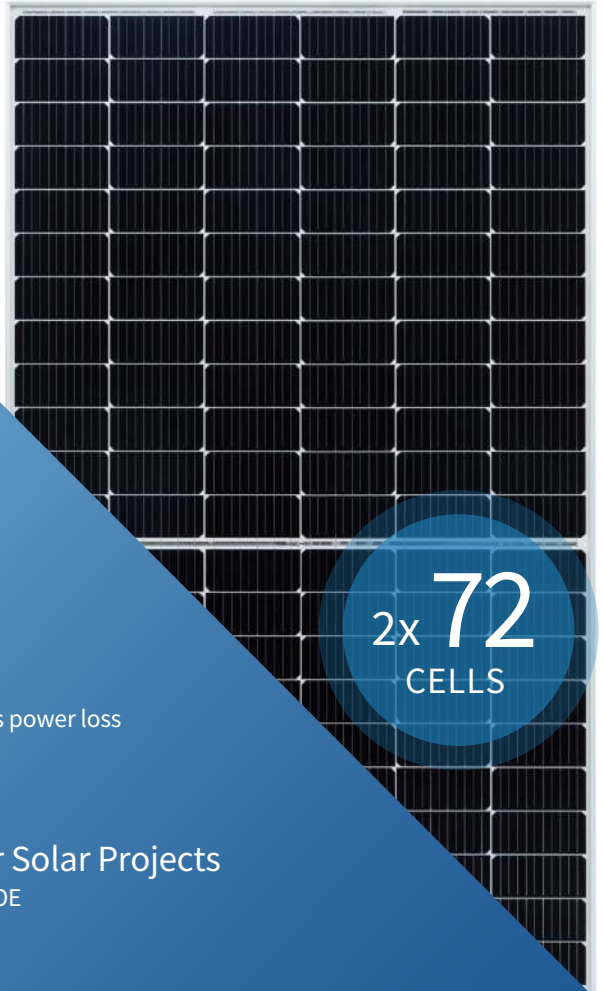


GIWA 5

Bifacial HJT Solar Module (Half-cut)

570-595W



Higher Power Output

The output power is as high as 595W
Bifaciality is up to 90%
Provide up to 25% extra power from rear side



Less Power Loss

Unique half-cut cell technology reduces power loss
Anti-PID & LID
Promise a higher yield for PV system



Ideal Choice For Solar Projects

Lower BOS / Lower LCOE
Improved ROI



Enhanced Safety Level

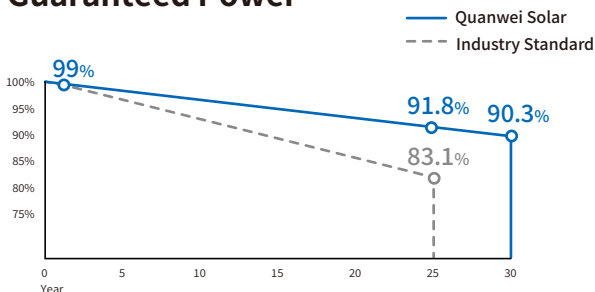
IP68 water resistance
Long-term weather endurance



Excellent Linear Power Warranty

Average annual degradation below 0.3% from 2nd year to 30th year.
At least 5% higher power output than P-type module after 25 years.

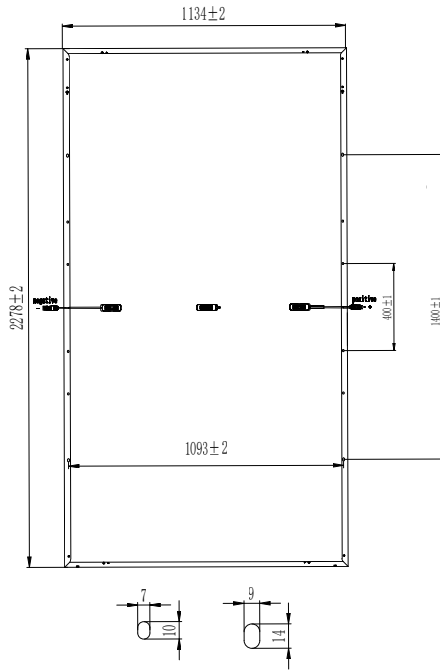
Guaranteed Power



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



TECHNICAL DRAWINGS



ELECTRICAL CHARACTERISTICS

Model/QWBDN144-	570W	575W	580W	585W	590W	595W
Testing Condition: STC Maximum Power (Pmax/W)	570	575	580	585	590	595
Operating Voltage (Vmpp/V)	46.46	46.79	47.12	47.41	47.75	48.03
Operating Current (Imp/A)	12.27	12.29	12.31	12.36	12.36	12.39
Open-Circuit Voltage (Voc/V)	53.13	53.44	53.73	53.99	54.31	54.64
Short-Circuit Current (Isc/A)	13.12	13.14	13.16	13.19	13.21	13.24
Module Efficiency (%)	22.07	22.26	22.45	22.65	22.85	23.04

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

REAR SIDE POWER GAIN(REFERENCE TO 580W FRONT)

Pmax Gain	5%	10%	15%	20%	25%
Pmax/W	609	638	667	696	725
Vmpp/V	47.13	47.13	47.15	47.15	47.16
Imp/A	12.92	13.54	14.15	14.76	15.37
Voc/V	53.74	53.74	53.76	53.76	53.77
Isc/A	13.86	14.64	15.42	16.21	16.97

MECHANICAL CHARACTERISTICS

Solar Cell	HJT 182 x 91mm
No. of Cells	144 (2 x 72)
Module Dimensions	2278 x 1134 x 30mm (89.69 x 44.65 x 1.18 inches)
Weight	32.3kg
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm ² , 250mm(+)/350mm(-) or Customized Length
Connectors	MC4

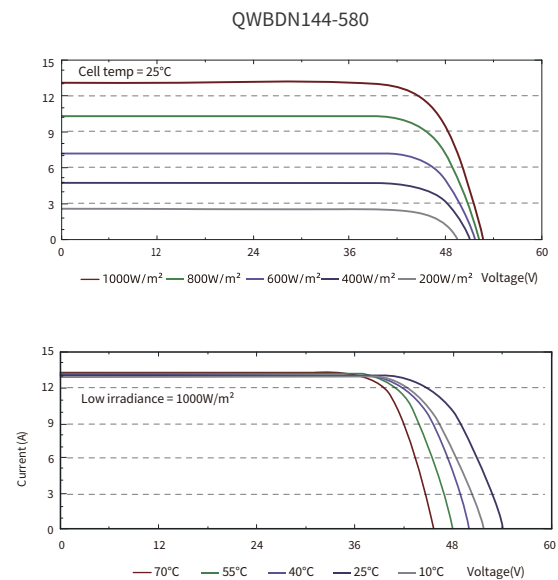
APPLICATION CONDITIONS

Maximun System Voltage	DC1500V
Operating Temperature	-40°C~+85°C
Maximun Series Fuse	25A
Safety Protection Class	Class II
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	85%±5%

TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.047%/°C
Nominal Module Operating Temperature (NOCT)	42±2°C

I-V CURVE



PACKING CONFIGURATION

Type of Shipping	Platform Trailer (17.5m)	Container 40'HC
Pieces/Pallet	36	36
Total Amount	864	720