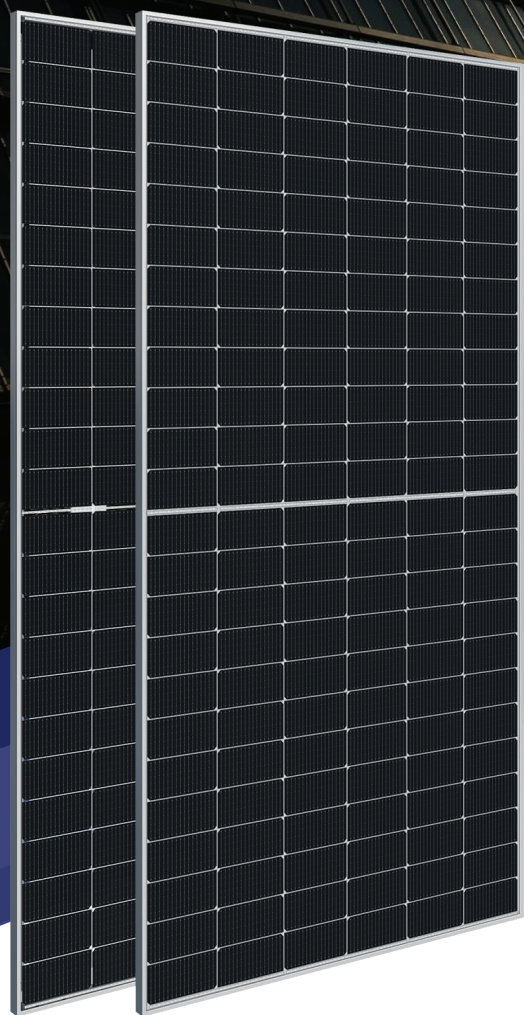




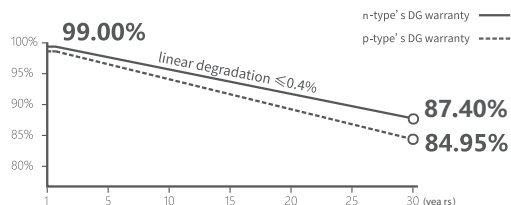
ALPHA N5 Bi-Facial Series

570~590W

Warranty

12 12-year Product Warranty

30 30-year Linear Power Warranty



Key Features

- TOPCon / Half-cut
- Low temperature coefficient (Pmpp)
- Non-destructive cutting
- PID resistance
- Low BOS cost & LCOE
- Bifacial gain



570~590W

POWER RANGE

0~+5W

POWER SORTING

22.5%

MAX MODULE
EFFICIENCY

≤ 1.0%

FIRST YEAR
POWER DEGRADATION

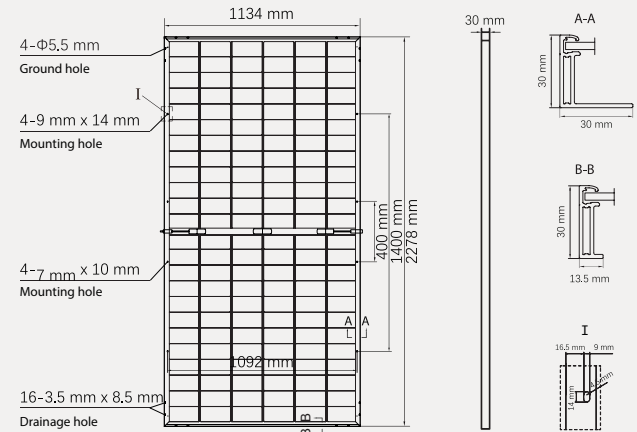
≤ 0.4%

YEAR 2-30
POWER DEGRADATION

Mechanical Specifications

Cell Type	182*91 N-Type Bi-Facial Mono
No. of Cells	144 (12*12)
Dimensions	2278*1134*30mm
Weight	32.20kg
Front Glass	2.0mm AR coating tempered glass
Back Glass	2.0mm Glazed glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3 diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
Max Wind Load/Snow Load	2400Pa/5400Pa
Weight of packing unit (for 40'HQ container)	1215 kg
Modules per 40' HQ container	720 pcs

① Refer to crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.



Electrical Specifications

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

Peak Power(Pmax)	570.00	575.00	580.00	585.00	590.00
Maximum Power Voltage(Vmp)	42.07	42.22	42.37	42.52	42.67
Maximum Power Current(Imp)	13.55	13.62	13.69	13.76	13.83
Open Circuit Voltage(Voc)	50.74± 3%	50.88± 3%	51.02± 3%	51.16± 3%	51.30± 3%
Short Circuit Current(Isc)	14.31± 3%	14.39± 3%	14.47± 3%	14.55± 3%	14.63± 3%
Module Efficiency(%)	22.07	22.26	22.45	22.63	22.83

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

Peak Power(Pmax)	421.00	425.00	429.00	433.00	437.00
Maximum Power Voltage(Vmp)	39.25	39.38	39.51	39.64	39.77
Maximum Power Current(Imp)	10.73	10.79	10.85	10.91	10.97
Open Circuit Voltage(Voc)	47.94± 3%	48.06± 3%	48.20± 3%	48.32± 3%	48.46± 3%
Short Circuit Current(Isc)	11.42± 3%	11.49± 3%	11.55± 3%	11.61± 3%	11.68± 3%

Electrical Specifications (Integrated power)

Pmpp gain	Pmpp / Wp	Vmpp / V	Impp / A	Voc / V	Isc / A
5%	599	42.77	13.99	50.90	14.10
10%	627	42.77	14.66	50.90	15.48
15%	656	42.78	15.32	50.91	16.18
20%	684	42.78	15.99	50.91	16.88
25%	713	42.78	16.65	50.91	17.58

Electrical characteristics with different rear power gain (reference to 570W)

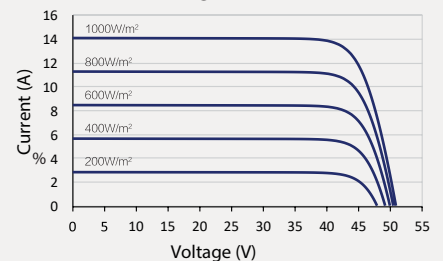
Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.29%/°C	No. of diodes	3
Temperature coefficient (Isc)	+0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.25%/°C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2	Max. system voltage (IEC/UL)	1500V _{DC}

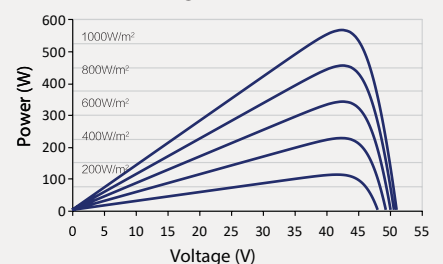
Operating Parameters

Curve

Current-Voltage (580W)



Power-Voltage (580W)



Current-Voltage (580W)

