

N Type

P Type



P Type Single Glass Module (Black)

Made in China

Module Type: DAS-WH108PA Module Power: 400W~420W

420W

Maximum Power Output

21.5%

Maximum Module Efficiency

0~+5W

Power Output Tolerance

-2.00%

1st-year Degradation

-0.50%

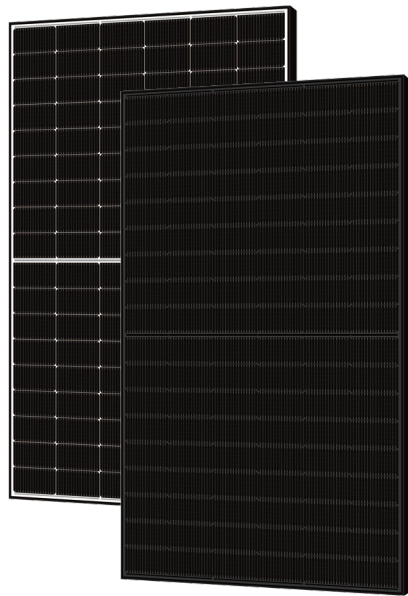
Annual Degradation

**25
YEAR**

Materials and
workmanship warranty

**25
YEAR**

Linear power
warranty



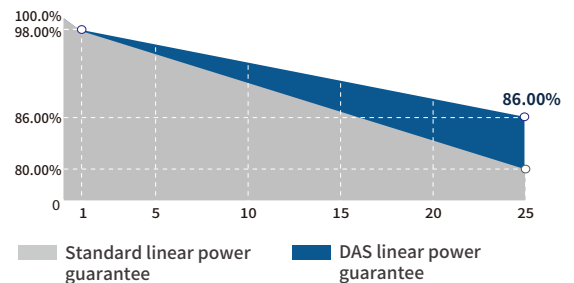
Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: 2015 Quality Management System

ISO 14001: 2015 Environment Management System

ISO45001: 2018 EHS Management System



Key Features



High Efficiency

Module efficiency leading in industry, up to 21.5%



Low NMOT

As low as 43°C, improving the power generation efficiency



Half Cell, MBB Technology

Series-then-parallel cell connection design, more reliable soldering technology



Reduce Mismatch Loss

Half-cut cell technology provides optimized energy production under inter-row shading conditions



High Reliability

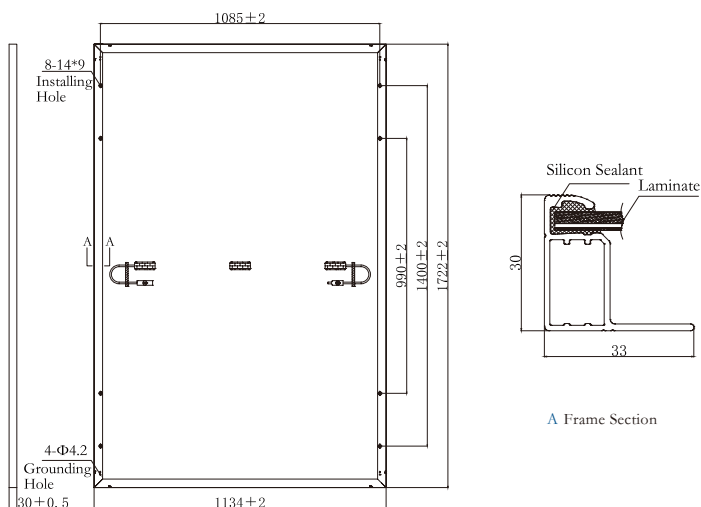
Passed 3*IEC standard test



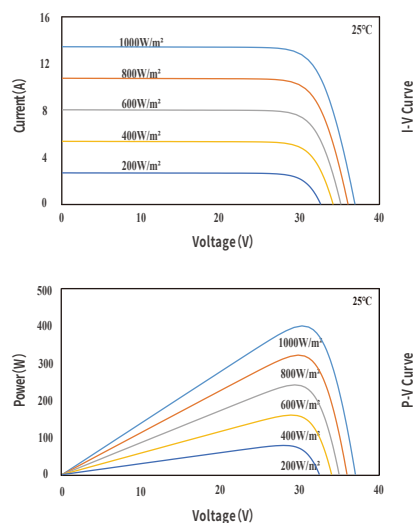
Outstanding visual appearance

Designed with aesthetics in mind

Engineering Drawing (MM)



Characteristic Curves(405W)



Electrical Properties (STC *)

Nominal Max. Power(Pmax/W)	400	405	410	415	420
Open Circuit Voltage(Voc/V)	37.21	37.38	37.55	37.71	37.87
Short Circuit Current(Isc/A)	13.67	13.76	13.85	13.94	14.03
Operating Voltage(Vmp/V)	31.18	31.35	31.52	31.68	31.84
Operating Current(Imp/A)	12.83	12.92	13.01	13.10	13.20
Efficiency(%)	20.5	20.7	21.0	21.3	21.5

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

Mechanical Parameters

Cell Type	P Type
Module Size	1722 × 1134 × 30mm
Glass Thickness	3.2mm
Module Weight	21.2Kg
Output Cable	4mm², cable length 300mm (can be customized)
Connector	1.QC4.10-cd,2.PV-KST4-EVO2/xy_UR (male),PV-KBT4-EVO2/xy_UR(female) 3.PV-ZH202B,4.YC4,5.QC4.10-cds,6.PV-TT02,7.PV-JK03M2/xy(Plug+Socket)
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy(Black)

Electrical Properties (NMOT *)

Nominal Max. Power(Pmax/W)	294.0	297.7	301.4	305.0	308.7
Open Circuit Voltage(Voc/V)	34.42	34.58	34.73	34.88	35.03
Short Circuit Current(Isc/A)	11.02	11.09	11.16	11.24	11.31
Operating Voltage(Vmp/V)	28.65	28.79	28.95	29.10	29.23
Operating Current(Imp/A)	10.26	10.34	10.41	10.48	10.56

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

Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	25A
Designed Mechanical Load	Positive 3600Pa, Negative 1600Pa

Temperature Coefficients

Short Circuit Current(Isc)	+0.048%/°C
Open Circuit Voltage(Voc)	-0.26%/°C
Nominal Max. Power(Pmax)	-0.340%/°C
NMOT	43 ± 2°C

Packing Data

Packing Type	20'GP	40'HQ
Piece/Pallet	36	36
Pallet/Container	6	26
Piece/Container	216	936

