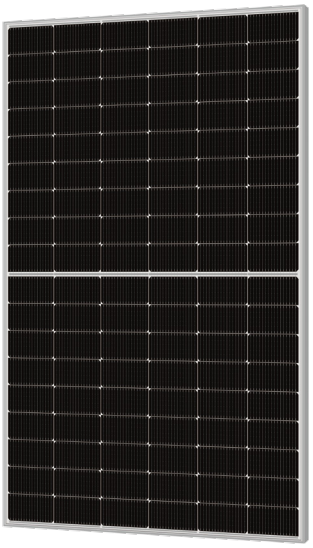
N Type P Type



P Type
Single Glass Module

Made in China

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

420W	21.5%	0~+5W
Maximum Power Output	Maximum Module Efficiency	Power Output Tolerance

-2.00% 1st-year Degradation

-0.50% Annual Degradation

25 YEAR
Materials and workmanship warranty

25 YEAR
Linear power warranty

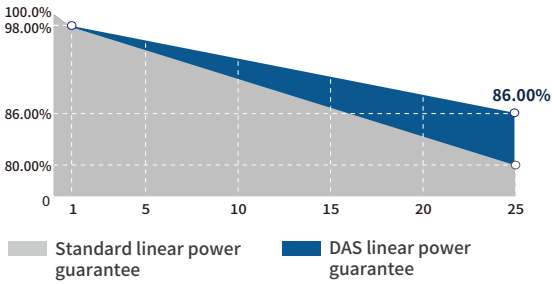
Product and Quality Certifications

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

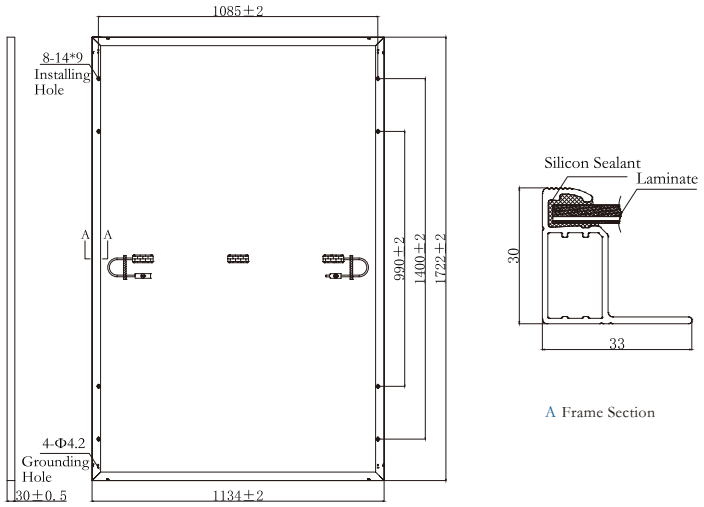
Half Cell, MBB Technology
Series-then-parallel cell connection design, more reliable soldering technology

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

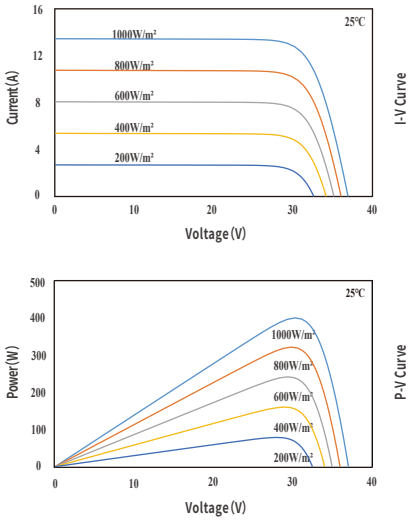
High Reliability
Passed 3*IEC standard test

Superior Low Irradiance Performance
Excellent low irradiance performance, increase power generation in low-light conditions like mornings, evenings and cloudy days

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

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 Temperatue	-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

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