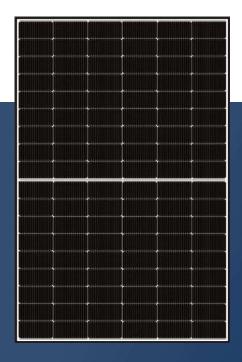
P Type Monofacial Module(Black Frame) DAS-WH108PA

400W~420W



Key Features

High Efficiency

Leading module efficiency in industry, up to 21.5%

Half Cell, SMBB Technology

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



High Reliability

Passed 3*IEC standard test



Low NMOT

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



Reduce Mismatch Loss

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



Superior Low Irradiance Performance

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

Maximum Power Output

Maximum Module Efficiency

21.5%

Tolerance

Power Output

0~+5W

Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

ISO 45001: Occupational Health and Safety Management System

IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test

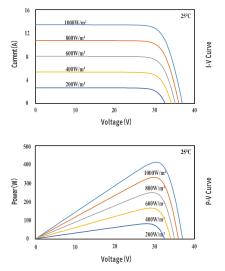
IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



100.0% 98.00% 86.00% 86.00% 80.00% 0 1 5 10 15 20 25 Standard linear power guarantee WH108PA linear power guarantee

Engineering Drawing (mm)

■ Characteristic Curves(410W)



Electrical Parameters (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 Test condition is based on the front side

| Mechanical Parameters

Cell Type	Р Туре
Module Size	1722×1134×30mm
Glass Thickness	3.2mm
Module Weight	21.5Kg
Output Cable	4mm², cable length 300mm (can be customized)
Connector	MC4 compatible
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy (Black)

| Electrical Parameters (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

Test condition is based on the front side $% \left\{ 1,2,\ldots ,n\right\}$

Operating Parameters

Max. System Voltage	DC1500V		
Power Tolerance	0 ~ +5 W		
Operating Temperatue	-40°C ~ +85°C		
Max. Fuse Rated Current	25A		
Front Static Load	Snow load 5400Pa, Wind load 2400Pa		

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



