



Half Cell Bifacial Module N Type

DAS-DH108NA 410W ~ 430W



High Efficiency

Module efficiency leading in industry, up to 22.0%



High Reliability

15 years materials warranty, 30 years power warranty



Dual Sides Power Generation

Bifaciality is up to 80%, up to 30% more energy yield than conventional modules



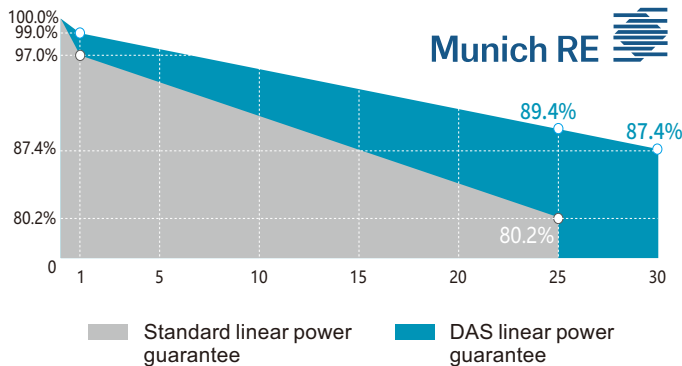
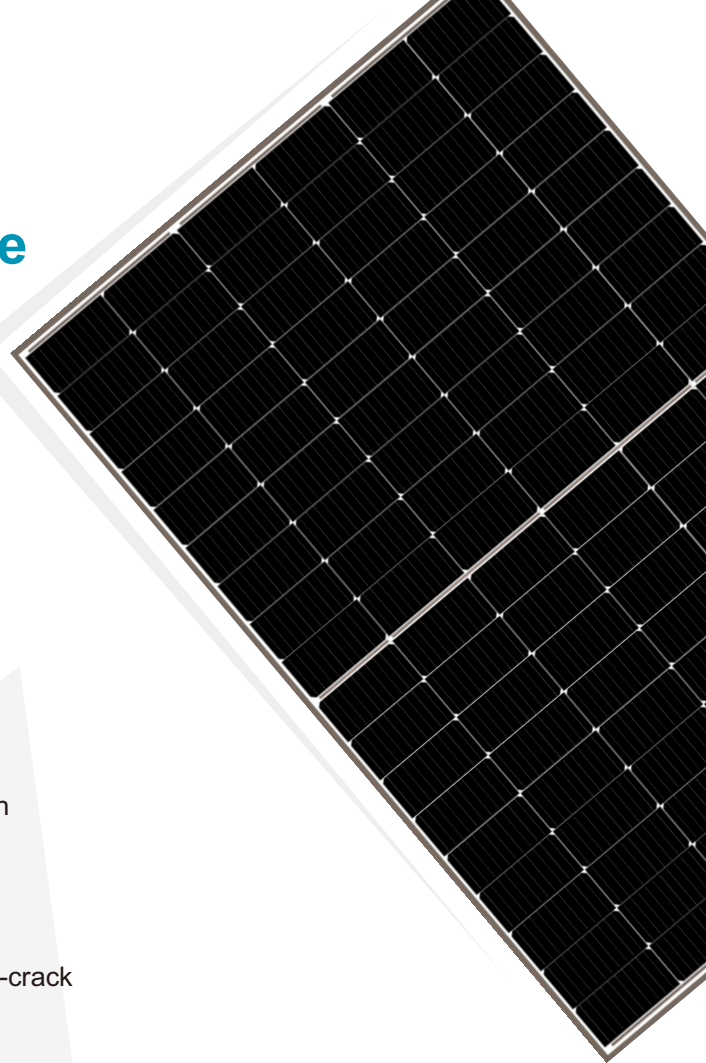
Excellent Appearance and Performance

Both side black cell, symmetrical design, low risk of micro-crack



Extensive Application Scenes

More extensive application scenes, such as BIPV, snow field, vertical installation, high humidity, strong wind and desert region



Product And Quality Certifications

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environmental 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

-1.00%
First year power degradation
-0.40%
Annual degradation

15 YEAR
Materials and workmanship warranty

30 YEAR
Linear power warranty



Electrical Parameters (STC*)

Module Type	DH108NA-410	DH108NA-415	DH108NA-420	DH108NA-425	DH108NA-430
Nominal Max. Power(Pmax/W)	410	415	420	425	430
Open Circuit Voltage(Voc/V)	37.81	37.94	38.07	38.21	38.36
Short Circuit Current(Isc/A)	13.47	13.51	13.55	13.58	13.63
Operating Voltage(Vmp/V)	31.99	32.24	32.51	32.78	33.10
Operating Current(Imp/A)	12.82	12.87	12.92	12.97	12.99
Efficiency(%)	21.0	21.3	21.5	21.8	22.0

STC*(Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

Electrical Parameters (NMOT*)

Module Type	DH108NA-410	DH108NA-415	DH108NA-420	DH108NA-425	DH108NA-430
Nominal Max. Power(Pmax/W)	309	313	317	321	325
Open Circuit Voltage(Voc/V)	36.32	36.44	36.56	36.69	36.84
Short Circuit Current(Isc/A)	10.81	10.84	10.87	10.90	10.94
Operating Voltage(Vmp/V)	30.06	30.33	30.60	30.87	31.19
Operating Current(Imp/A)	10.28	10.32	10.36	10.40	10.42

NMOT*(Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

Back Power Gain (For 430W)

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/W)	664	685	707	729	750
Open Circuit Voltage(Voc/V)	55.38	55.38	55.38	55.38	55.38
Short Circuit Current(Isc/A)	14.57	15.05	15.53	16.00	16.48
Operating Voltage(Vmp/V)	47.74	47.74	47.74	47.74	47.74
Operating Current(Imp/A)	13.90	14.35	14.81	15.26	15.72

Mechanical Parameters

Cell size	Bifacial N Type 182mm*91mm
Module size	1724*1134*35mm (L x W x H)
Glass Thickness	2.0mm
Module Weight	24.7Kg
Output Cable	4mm ² , cable length 300mm (can be customized)
Connector	MC4 compatible
J-Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

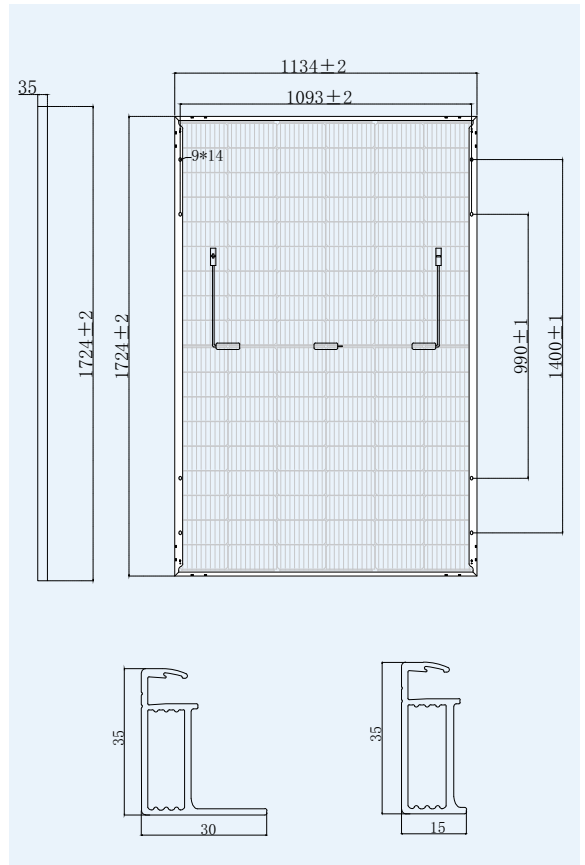
Temperature Coefficients

Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.25%/°C
Nominal Max. Power(Pmax)	-0.30%/°C
NMOT	42±2°C

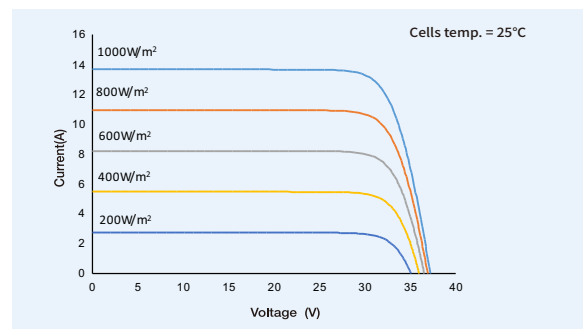
Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	30A
Front Static Load	Snow load 5400Pa, Wind load 2400Pa
Safety Class	Class II
Packing Specification	31 pcs/Pallet, 186 pcs/ 20'GP; 806 pcs/ 40'HQ;

Dimension



I-V curve



I-V curve

