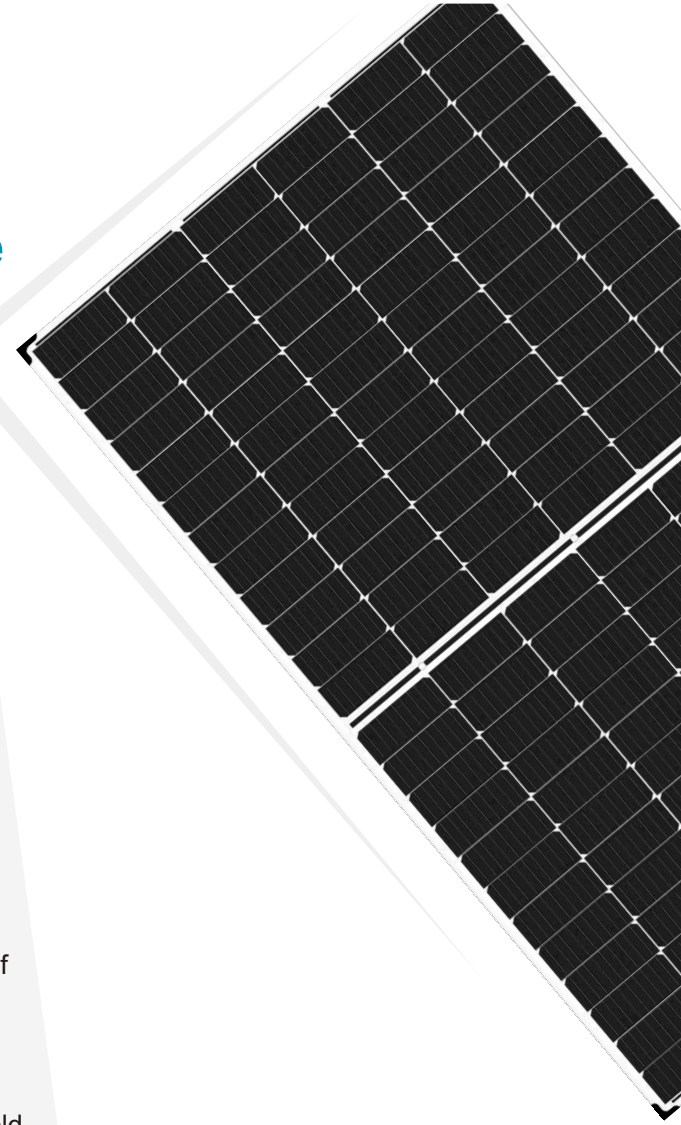




Half Cell Bifacial Module N Type

DAS-DH144NB 420W ~ 440W



High Efficiency

Module efficiency leading in industry, up to 20.8%



High Reliability

Passed 3*IEC standard test, 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



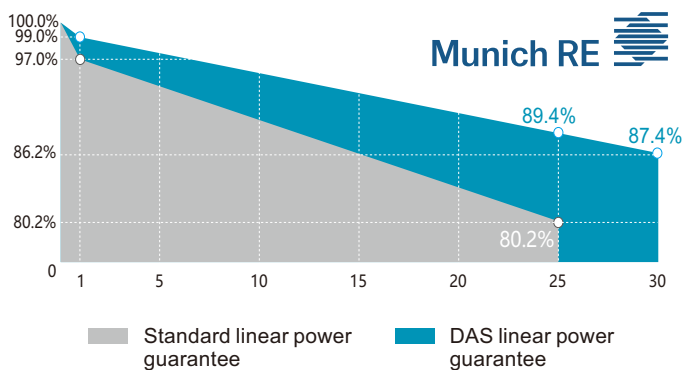
Excellent Appearance and Performance

Both side black cell, "0" LID, 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
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules. Guideline for increased confidence in PV module design qualification and type approval

-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	DH144NB-440	DH144NB-435	DH144NB-430	DH144NB-425	DH144NB-420
Nominal Max. Power(Pmax/W)	440	435	430	425	420
Open Circuit Voltage(Voc/V)	50.19	50.04	49.89	49.74	49.58
Short Circuit Current(Isc/A)	10.73	10.68	10.63	10.58	10.53
Operating Voltage(Vmp/V)	43.79	43.42	43.05	42.68	42.30
Operating Current(Imp/A)	10.05	10.02	9.99	9.96	9.93
Module Efficiency(%)	20.8	20.6	20.4	20.1	19.9

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

Electrical Parameters (NMOT*)

Module Type	DH144NB-440	DH144NB-435	DH144NB-430	DH144NB-425	DH144NB-420
Nominal Max. Power(Pmax/W)	323	320	316	312	309
Open Circuit Voltage(Voc/V)	46.43	46.29	46.15	46.01	45.86
Short Circuit Current(Isc/A)	8.65	8.61	8.57	8.53	8.49
Operating Voltage(Vmp/V)	40.17	39.90	39.55	39.15	38.92
Operating Current(Imp/A)	8.04	8.02	7.99	7.97	7.94

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

Back Power Gain (For 430)

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/W)	460	480	495	510	530
Open Circuit Voltage(Voc/V)	49.89	49.89	49.90	49.90	49.90
Short Circuit Current(Isc/A)	11.37	11.85	12.22	12.59	13.07
Operating Voltage(Vmp/V)	43.05	43.05	43.06	43.06	43.06
Operating Current(Imp/A)	10.69	11.15	11.50	11.85	12.31

Mechanical Parameters

Cell size	Bifacial N Type 161.7mm*80.85mm
Module size	2071×1020×6mm (L x W x H)
Glass Thickness	2.5mm
Module Weight	30.0Kg
Output Cable	4mm ² , cable length 300mm (can be customized)
Connector	MC4 compatible
J-Box	IP68, 3 bypass diodes
Frame	Frameless

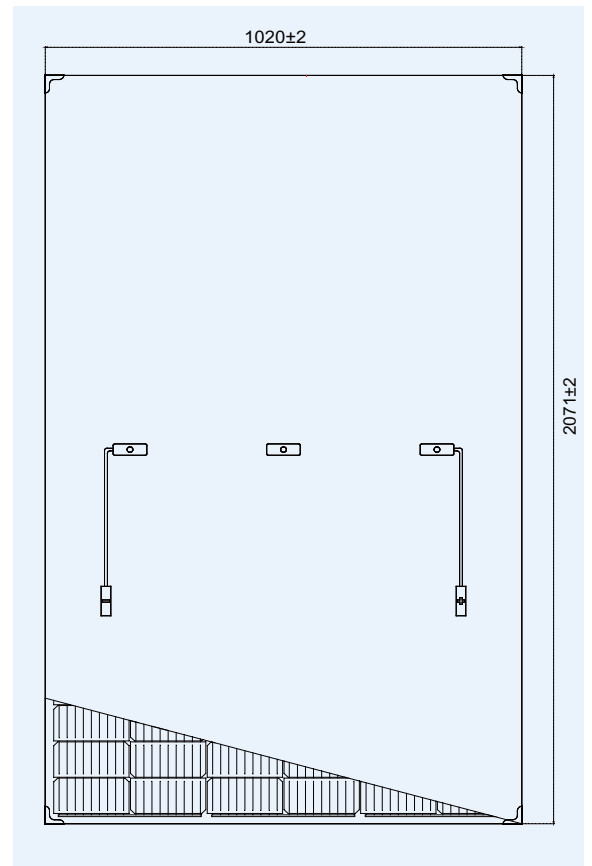
Temperature Coefficients

Short Circuit Current(Isc)	+0.048%/°C
Open Circuit Voltage(Voc)	-0.30%/°C
Nominal Max. Power(Pmax)	-0.35%/°C
NMOT	42±2°C

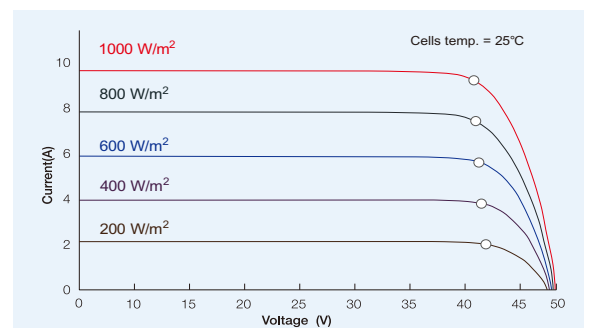
Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	20A
Front Static Load	Snow load 5400Pa, Wind load 2400Pa
Application Classification	Class A
Packing Specification	33 pcs/Pallet, 165 pcs/ 20'HQ; 660 pcs/ 40'HQ;

Dimension



I-V curve



I-V curve

