



Half Cell Bifacial Module N Type

DAS-DH144NA 540W ~ 560W



High Efficiency

Module efficiency leading in industry, up to 21.7%



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



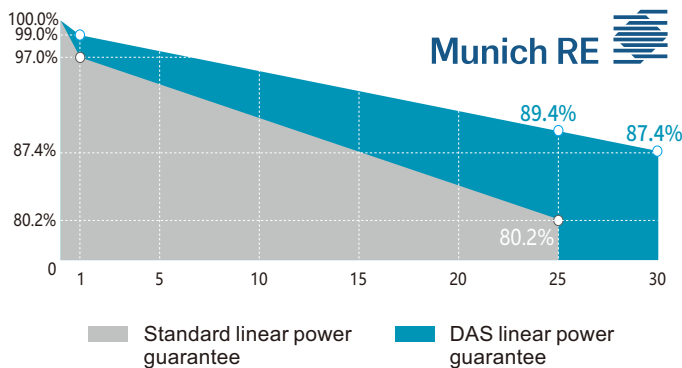
Excellent Appearance and Performance

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	DH144NA-540	DH144NA-545	DH144NA-550	DH144NA-555	DH144NA-560
Nominal Max. Power(Pmax/W)	540	545	550	555	560
Open Circuit Voltage(Voc/V)	49.52	49.68	49.84	50.03	50.15
Short Circuit Current(Isc/A)	13.84	13.91	13.98	14.04	14.12
Operating Voltage(Vmp/V)	41.67	41.83	41.99	42.18	42.30
Operating Current(Imp/A)	12.96	13.03	13.10	13.16	13.24
Efficiency(%)	20.9	21.1	21.3	21.5	21.7

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

Electrical Parameters (NMOT*)

Module Type	DH144NA-540	DH144NA-545	DH144NA-550	DH144NA-555	DH144NA-560
Nominal Max. Power(Pmax/W)	397	401	404	408	412
Open Circuit Voltage(Voc/V)	45.81	45.95	46.10	46.28	46.39
Short Circuit Current(Isc/A)	11.16	11.21	11.27	11.32	11.38
Operating Voltage(Vmp/V)	38.28	38.48	38.55	38.75	38.90
Operating Current(Imp/A)	10.37	10.42	10.48	10.53	10.59

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

Back Power Gain (For 540W)

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/W)	594	621	648	675	702
Open Circuit Voltage(Voc/V)	49.52	49.62	49.62	49.62	49.62
Short Circuit Current(Isc/A)	15.22	15.87	16.55	17.22	17.90
Operating Voltage(Vmp/V)	41.67	41.77	41.77	41.77	41.77
Operating Current(Imp/A)	14.26	14.87	15.52	16.16	16.81

Mechanical Parameters

Cell size	Bifacial N Type 182mm*91mm
Module size	2274×1134×35mm (L x W x H)
Glass Thickness	2.0mm
Module Weight	32.6Kg
Output Cable	4mm ² , cable length 300mm (can be customized)
Connector	MC4 compatible
J-Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

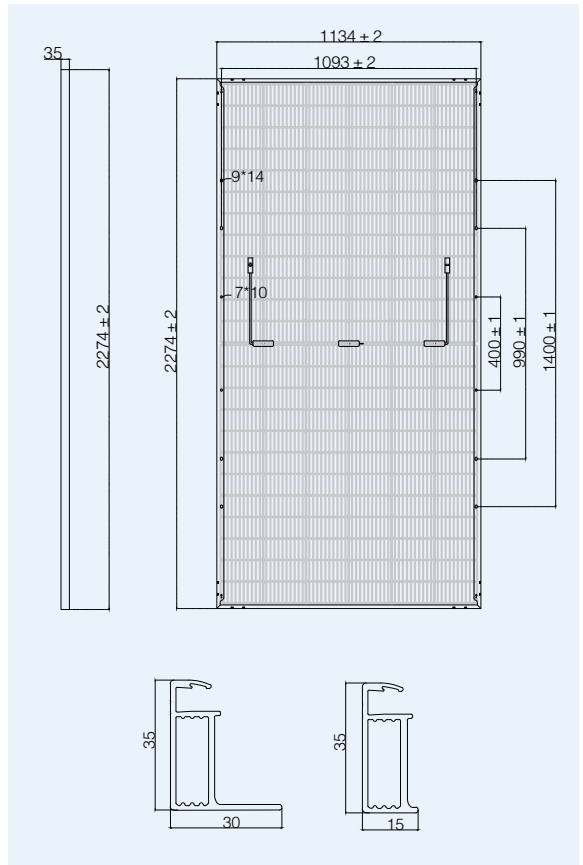
Temperature Coefficients

Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.25%/°C
Nominal Max. Power(Pmax)	-0.32%/°C
NMOT	42±2°C

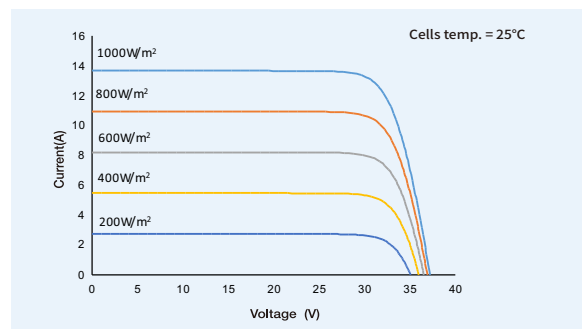
Operating Parameters

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, 155 pcs/ 20'GP; 620 pcs/ 40'HQ;

Dimension



I-V curve



I-V curve

