



Half Cell Bifacial Module PERC

DAS-DH144PA 530W ~ 550W



High Efficiency

Module efficiency leading in industry, up to 21.3%



High Reliability

15 years materials warranty, 30 years power warranty



Dual Sides Power Generation

Bifaciality is up to 70%, up to 25% more energy yield than conventional modules



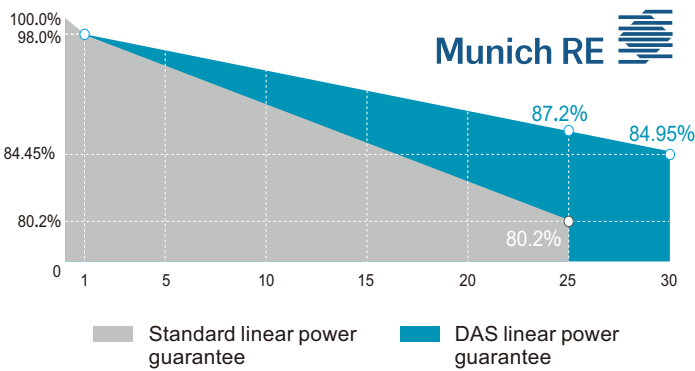
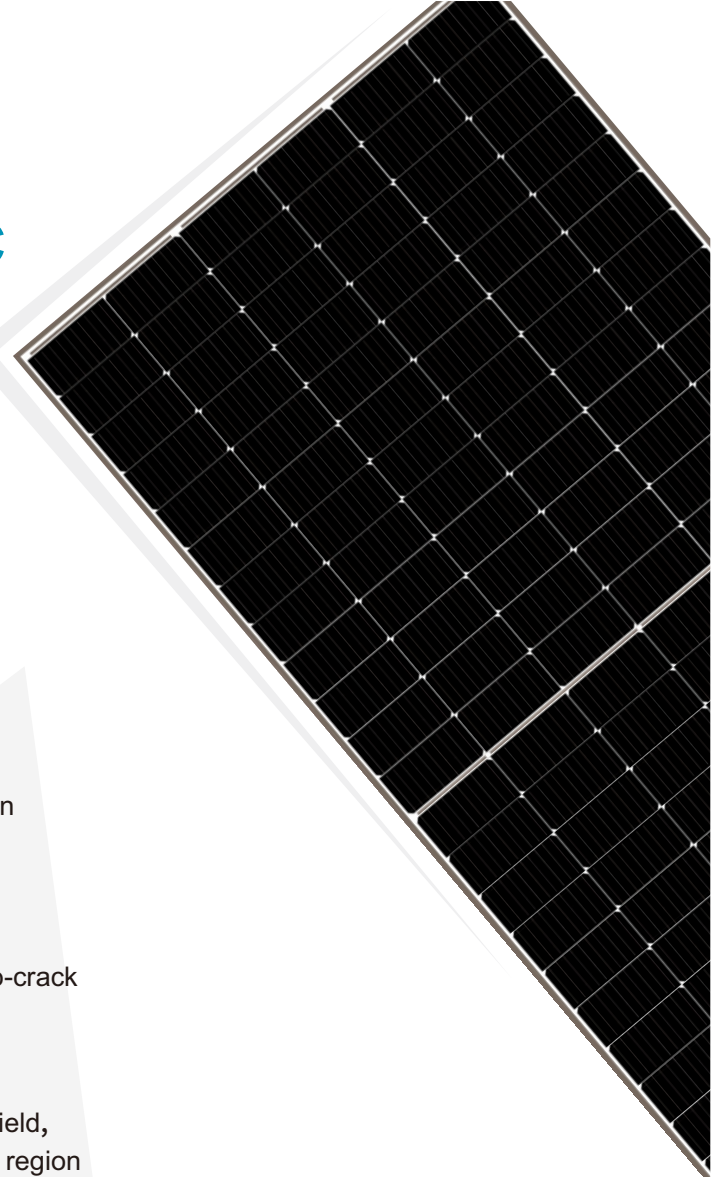
Excellent Appearance and Performance

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

-2.00%
First year power degradation
-0.45%
Annual degradation

15 YEAR
Materials and workmanship warranty

30 YEAR
Linear power warranty



Electrical Parameters (STC*)

Module Type	DH144PA-530	DH144PA-535	DH144PA-540	DH144PA-545	DH144PA-550
Nominal Max. Power(Pmax/W)	530	535	540	545	550
Open Circuit Voltage(Voc/V)	49.16	49.36	49.52	49.68	49.84
Short Circuit Current(Isc/A)	13.72	13.77	13.84	13.91	13.98
Operating Voltage(Vmp/V)	41.31	41.51	41.67	41.83	41.99
Operating Current(Imp/A)	12.83	12.89	12.96	13.03	13.10
Efficiency(%)	20.6	20.7	20.9	21.1	21.3

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

Electrical Parameters (NMOT*)

Module Type	DH144PA-530	DH144PA-535	DH144PA-540	DH144PA-545	DH144PA-550
Nominal Max. Power(Pmax/W)	390	393	397	401	404
Open Circuit Voltage(Voc/V)	45.47	45.66	45.81	45.95	46.10
Short Circuit Current(Isc/A)	11.06	11.10	11.16	11.21	11.27
Operating Voltage(Vmp/V)	38.01	38.12	38.28	38.48	38.55
Operating Current(Imp/A)	10.26	10.31	10.37	10.42	10.48

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

Back Power Gain (For 535W)

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/W)	589	615	642	669	696
Open Circuit Voltage(Voc/V)	49.36	49.46	49.46	49.46	49.46
Short Circuit Current(Isc/A)	15.15	15.79	16.47	17.15	17.83
Operating Voltage(Vmp/V)	41.51	41.61	41.61	41.61	41.61
Operating Current(Imp/A)	14.19	14.79	15.43	16.08	16.73

Mechanical Parameters

Cell size	Mono PERC 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

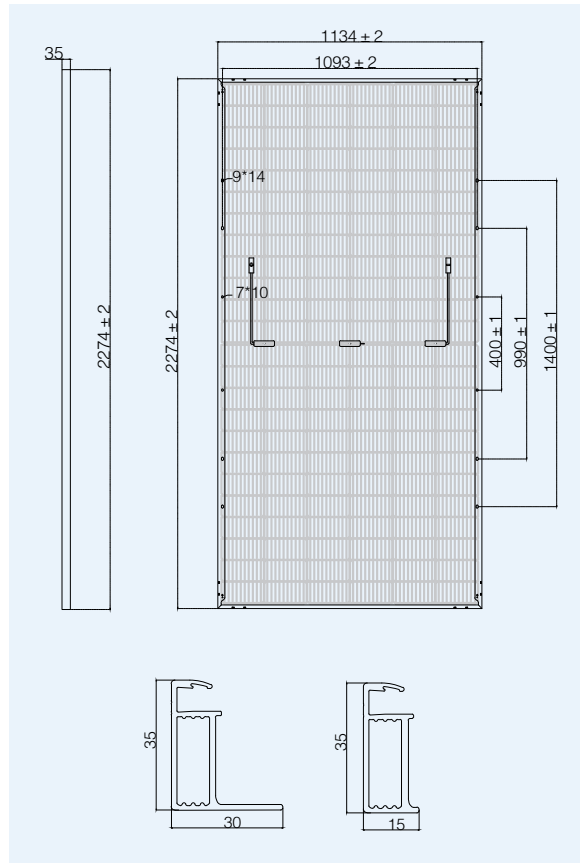
Temperature Coefficients

Short Circuit Current(Isc)	+0.048%/°C
Open Circuit Voltage(Voc)	-0.28%/°C
Nominal Max. Power(Pmax)	-0.35%/°C
NMOT	42±2°C

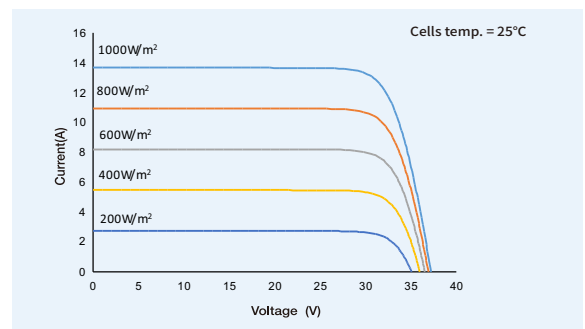
Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	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

