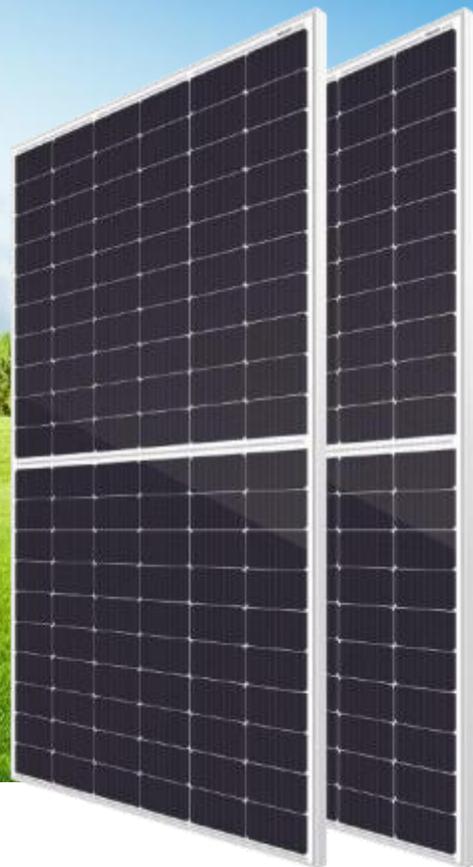


**NV** 166

# NVM360~380MH3-60

Monofacial high efficiency mono PV module

**20.86%**  
Module Efficiency 20.86%



## PRODUCT FEATURES



### High Efficiency

The multi-busbar half-cut technology can boost energy density to deliver higher output.



### High Reliability

Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.



### High ROI

Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.



### Low Degradation

First-year degradation is less than 2.0%, with linear degradation of 0.55% per year for 25 years.



### Low Risk of Hot Spot

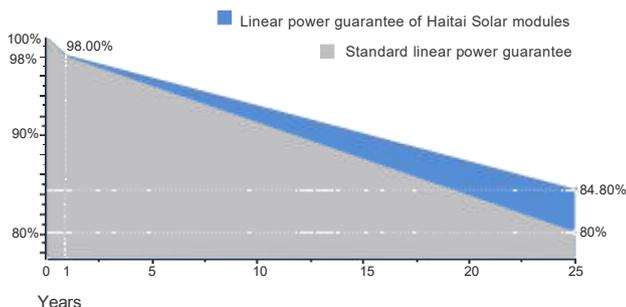
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.



### Low Risk of Micro-Crack

The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

## LINEAR PERFORMANCE WARRANTY



12 years product warranty



25 years linear power warranty



0.55% Linear attenuation of 0.55% per year within 25 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	360	365	370	375	380
Open Circuit Voltage (Voc/V)	40.60	40.80	41.00	41.20	41.40
Short Circuit Current (Isc/A)	11.30	11.37	11.45	11.54	11.60
Voltage at Maximum Power (Vmp/V)	33.52	33.72	33.92	34.12	34.32
Current at Maximum Power (Imp/A)	10.75	10.83	10.92	11.00	11.08
Module Efficiency (%)	19.76	20.04	20.31	20.59	20.86
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	267	271	275	279	283
Open Circuit Voltage (Voc/V)	37.29	37.49	37.69	37.89	38.09
Short Circuit Current (Isc/A)	9.36	9.44	9.51	9.59	9.65
Voltage at Maximum Power (Vmp/V)	30.74	30.94	31.14	31.34	31.54
Current at Maximum Power (Imp/A)	8.70	8.77	8.84	8.91	8.98

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

## Mechanical Data

Cell Type	166×83mm Mono
Cell Orientation	120(6×20)
Module Dimensions	1755×1038×35mm
Weight	20.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

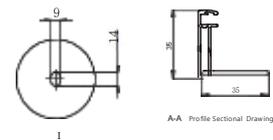
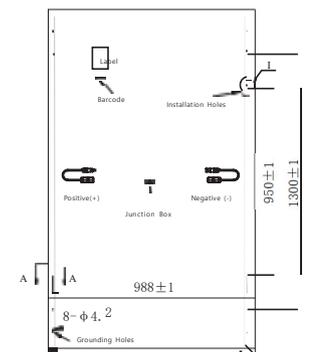
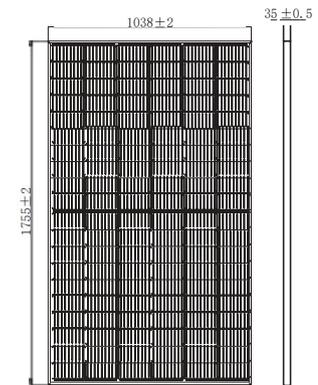
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41±3°C

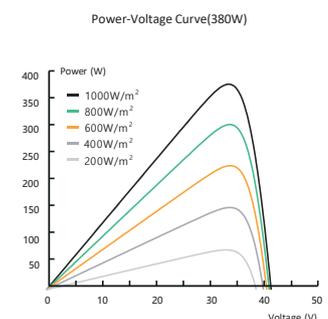
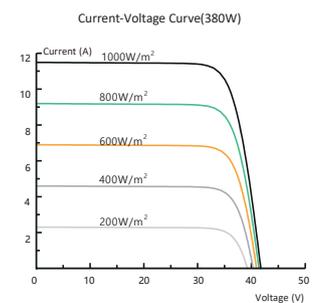
## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	806pcs	31pcs +31pcs

## Module Dimensions (mm)



## I-V Curve



**NV 166**

**NVM360-380DMH3-60**

Bifacial high efficiency mono PV module

**20.86%**

Module Efficiency 20.86%

**PRODUCT FEATURES**

- 

**High Efficiency**  
Power can be generated on both sides to support additional output gains of up to 25%.  
The multi-busbar half-cut technology can boost energy density to deliver higher output.
- 

**High Reliability**  
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- 

**High ROI**  
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

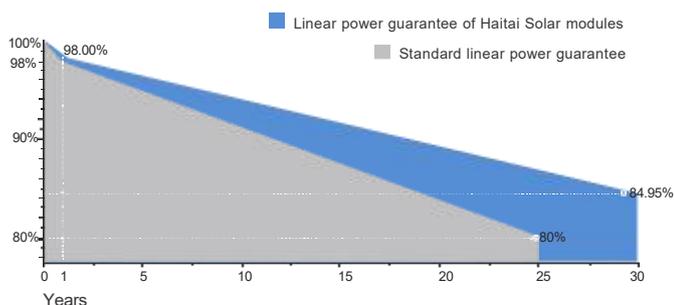
- 

**Low Degradation**  
First-year degradation is less than 2.0%, with linear degradation of 0.45% per year for 30 years.
- 

**Low Risk of Hot Spot**  
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- 

**Low Risk of Micro-Crack**  
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



 12 product warranty

 30 linear power warranty

 0.45% Linear attenuation of 0.45% per year within 30 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	360	365	370	375	380
Open Circuit Voltage (Voc/V)	40.60	40.80	41.00	41.20	41.40
Short Circuit Current (Isc/A)	11.30	11.37	11.45	11.54	11.60
Voltage at Maximum Power (Vmp/V)	33.52	33.72	33.92	34.12	34.32
Current at Maximum Power (Imp/A)	10.75	10.83	10.92	11.00	11.08
Module Efficiency (%)	19.76	20.04	20.31	20.59	20.86
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25° C, AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	267	271	275	279	283
Open Circuit Voltage (Voc/V)	37.29	37.49	37.69	37.89	38.09
Short Circuit Current (Isc/A)	9.36	9.44	9.51	9.59	9.65
Voltage at Maximum Power (Vmp/V)	30.74	30.94	31.14	31.34	31.54
Current at Maximum Power (Imp/A)	8.70	8.77	8.84	8.91	8.98

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM1.5, Wind Speed 1m/s.

## Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	378	383	389	394	399
	Module Efficiency (%)	20.75	21.04	21.33	21.61	21.90
15%	Maximum Power (Pmax/W)	414	420	426	431	437
	Module Efficiency (%)	22.73	23.04	23.36	23.67	23.99
25%	Maximum Power (Pmax/W)	450	456	463	469	475
	Module Efficiency (%)	24.70	25.05	25.39	25.73	26.07

## Mechanical Data

Cell Type	166×83mm Mono
Cell Orientation	120(6×20)
Module Dimensions	1755×1038×30mm
Weight	24.0kg
Glass	2.0mm high transmittance, reinforced glass
Backsheet	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

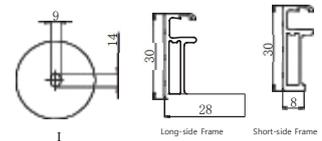
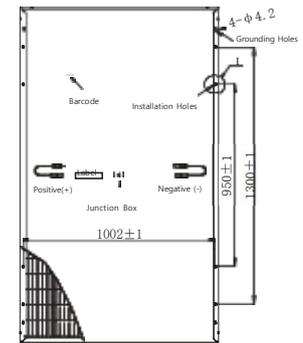
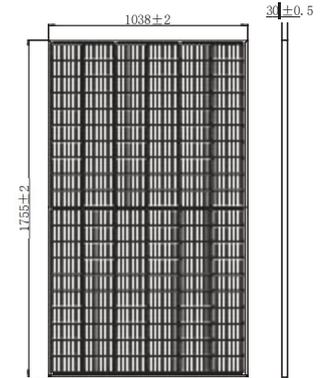
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41 ± 3° C

## Packaging

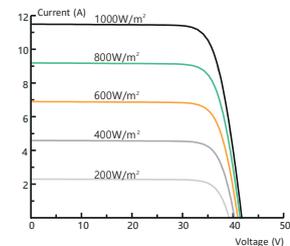
Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	864pcs	36pcs+36pcs

## Module Dimensions (mm)

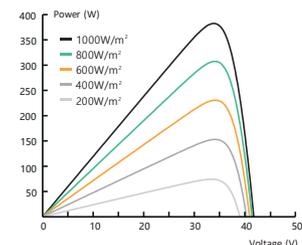


## I-V Curve

Current-Voltage Curve(380W)



Power-Voltage Curve(380W)

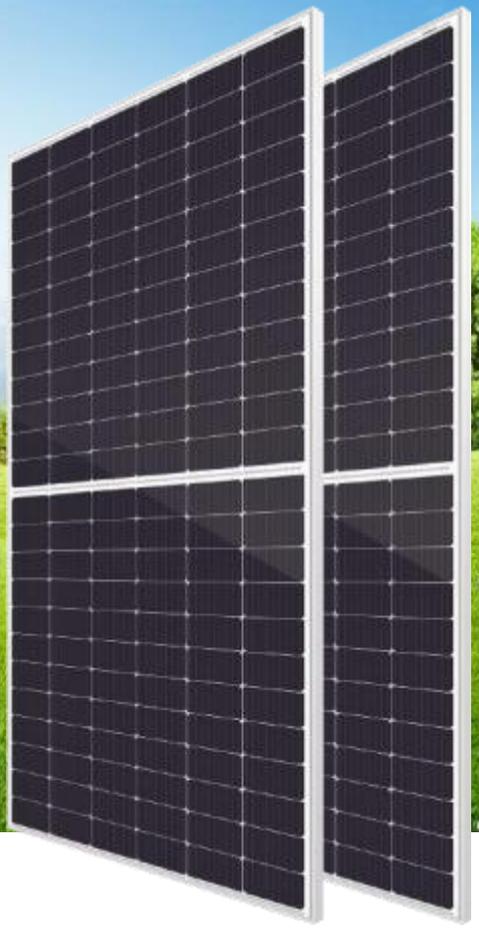


**NV** 166

**NVM440~460MH3-72**

Monofacial high efficiency mono PV module

**21.16%**  
Module Efficiency 21.16%

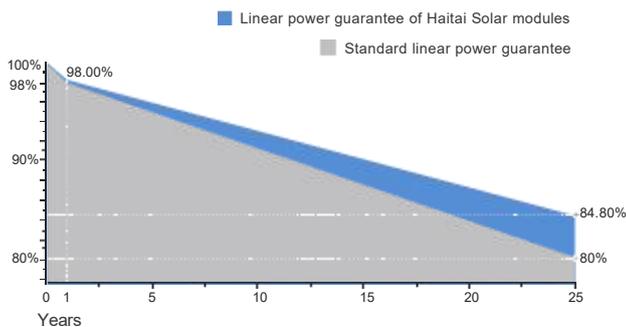


**PRODUCT FEATURES**

- 
**High Efficiency**  
 The multi-busbar half-cut technology can boost energy density to deliver higher output.
- 
**High Reliability**  
 Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- 
**High ROI**  
 Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

- 
**Low Degradation**  
 First-year degradation is less than 2.0%, with linear degradation of 0.55% per year for 25 years.
- 
**Low Risk of Hot Spot**  
 The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- 
**Low Risk of Micro-Crack**  
 The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



- 
**12** product warranty
- 
**25** linear power warranty
- 
**0.55** Linear attenuation of 0.55% per year within 25 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	440	445	450	455	460
Open Circuit Voltage (Voc/V)	49.08	49.28	49.48	49.68	49.88
Short Circuit Current (Isc/A)	11.39	11.46	11.53	11.59	11.67
Voltage at Maximum Power (Vmp/V)	40.54	40.74	40.94	41.14	41.34
Current at Maximum Power (Imp/A)	10.86	10.93	11.00	11.07	11.13
Module Efficiency (%)	20.24	20.47	20.7	20.93	21.16
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25° C , AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	328	332	336	340	344
Open Circuit Voltage (Voc/V)	45.01	45.21	45.41	45.61	45.81
Short Circuit Current (Isc/A)	9.46	9.54	9.61	9.67	9.74
Voltage at Maximum Power (Vmp/V)	37.34	37.54	37.74	37.94	38.14
Current at Maximum Power (Imp/A)	8.79	8.85	8.91	8.97	9.02

NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C , AM1.5,Wind Speed 1m/s.

## Mechanical Data

Cell Type	166×83mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2094×1038×35mm
Weight	23.5kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 200mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

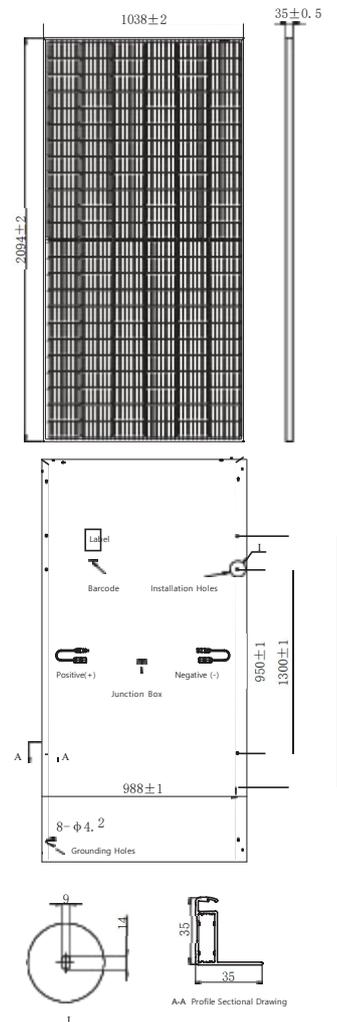
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Moudule Operating Temperature)	41 ± 3° C

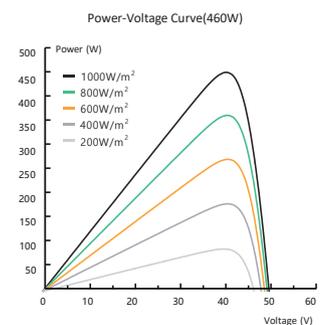
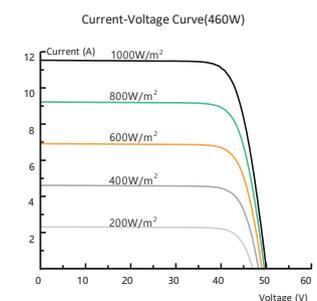
## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	682pcs	31pcs +31pcs

## Module Dimensions (mm)



## I-V Curve



**NV 166**

**NVM440~460DMH3-72**  
Bifacial high efficiency mono PV module

**21.16%**  
Module Efficiency 21.16%



**PRODUCT FEATURES**

- 

**High Efficiency**  
Power can be generated on both sides to support additional output gains of up to 25%.  
The multi-busbar half-cut technology can boost energy density to deliver higher output.
- 

**High Reliability**  
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- 

**High ROI**  
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

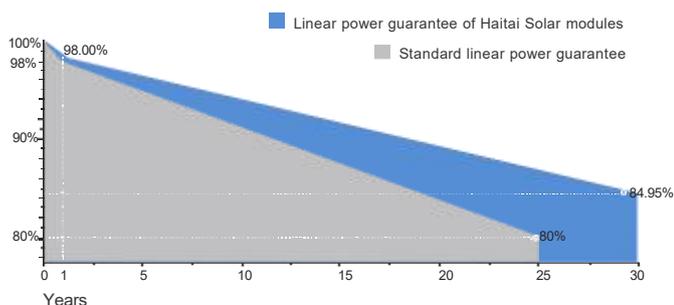
- 

**Low Degradation**  
First-year degradation is less than 2.0%, with linear degradation of 0.45% per year for 30 years.
- 

**Low Risk of Hot Spot**  
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- 

**Low Risk of Micro-Crack**  
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



- 

12 product warranty
- 

30 linear power warranty
- 

0.45% Linear attenuation of 0.45% per year within 30 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	440	445	450	455	460
Open Circuit Voltage (Voc/V)	49.08	49.28	49.48	49.68	49.88
Short Circuit Current (Isc/A)	11.39	11.46	11.53	11.59	11.66
Voltage at Maximum Power (Vmp/V)	40.54	40.74	40.94	41.14	41.34
Current at Maximum Power (Imp/A)	10.86	10.93	11.00	11.07	11.13
Module Efficiency (%)	20.24	20.47	20.70	20.93	21.16
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	328	332	336	340	344
Open Circuit Voltage (Voc/V)	45.01	45.21	45.41	45.61	45.81
Short Circuit Current (Isc/A)	9.46	9.54	9.61	9.67	9.74
Voltage at Maximum Power (Vmp/V)	37.34	37.54	37.74	37.94	38.14
Current at Maximum Power (Imp/A)	8.79	8.85	8.91	8.97	9.02

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

## Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	462	467	473	478	483
	Module Efficiency (%)	21.26	21.50	21.74	21.98	22.22
15%	Maximum Power (Pmax/W)	506	512	518	523	529
	Module Efficiency (%)	23.28	23.54	23.81	24.07	24.34
25%	Maximum Power (Pmax/W)	550	556	563	569	575
	Module Efficiency (%)	25.30	25.59	25.88	26.17	26.45

## Mechanical Data

Cell Type	166×83mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2094×1038×30mm
Weight	28.0kg
Glass	2.0mm high transmittance, reinforced glass
Backsheet	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

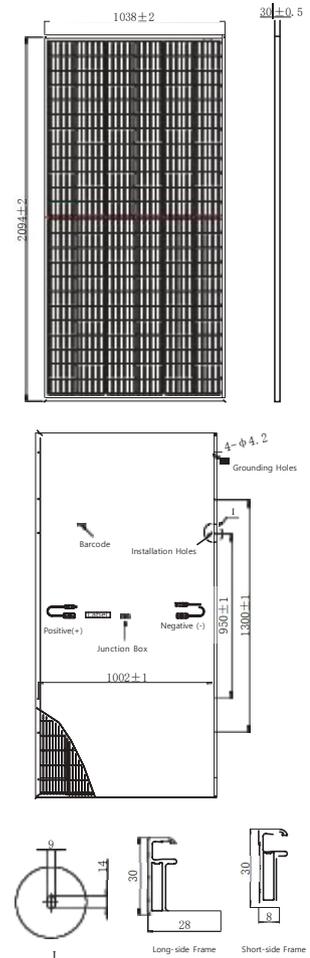
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41 ± 3°C

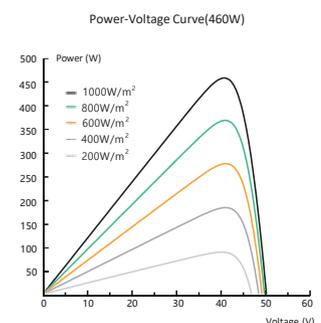
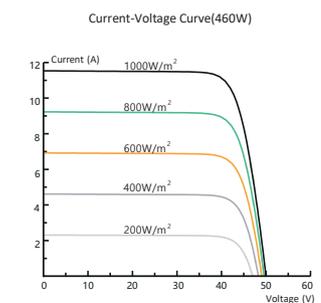
## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	792pcs	36pcs +36pcs

## Module Dimensions (mm)



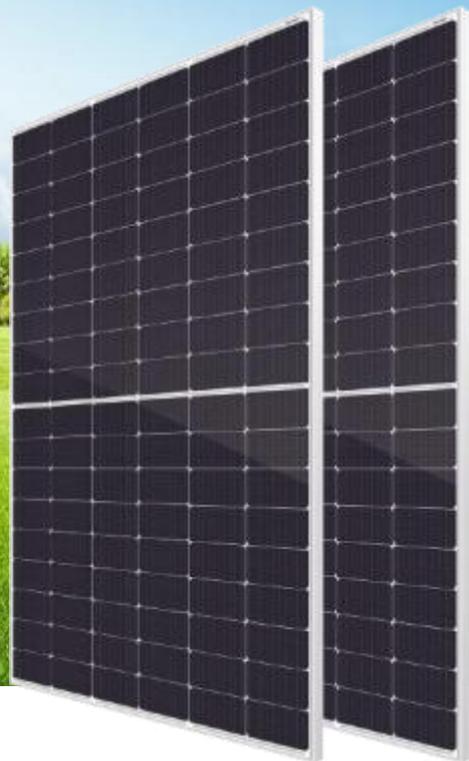
## I-V Curve



**NV** 182

**NVM400~420MH5-54**  
Monofacial high efficiency mono PV module

**21.48%**  
Module Efficiency 21.48%



**PRODUCT FEATURES**

- 

**High efficiency**  
The multi-busbar half-cut technology can boost energy density to deliver higher output.
- 

**Highly reliable**  
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- 

**High yield**  
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

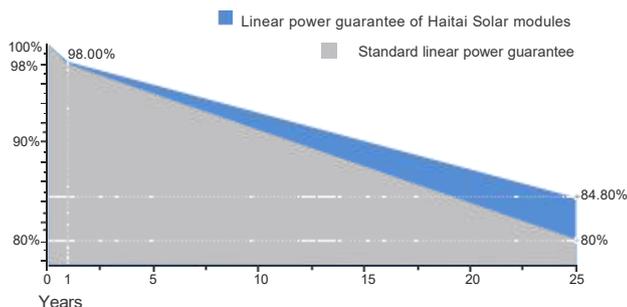
- 

**Low degradation**  
First-year degradation is less than 2.0%, with linear degradation of 0.55% per year for 25 years.
- 

**Low hot-spot risk**  
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- 

**Low micro crack risk**  
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



- 

12 product warranty
- 

25 linear power warranty
- 

0.55 Linear attenuation of 0.55% per year within 25 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	400	405	410	415	420
Open Circuit Voltage (Voc/V)	36.96	37.11	37.26	37.41	37.56
Short Circuit Current (Isc/A)	13.60	13.70	13.79	13.89	13.98
Voltage at Maximum Power (Vmp/V)	31.00	31.15	31.30	31.45	31.60
Current at Maximum Power (Imp/A)	12.91	13.01	13.10	13.20	13.30
Module Efficiency (%)	20.48	20.74	21.00	21.25	21.51
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C , AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	300	304	308	312	316
Open Circuit Voltage (Voc/V)	33.97	34.12	34.27	34.42	34.57
Short Circuit Current (Isc/A)	11.10	11.18	11.27	11.35	11.43
Voltage at Maximum Power (Vmp/V)	28.19	28.34	28.49	28.64	28.79
Current at Maximum Power (Imp/A)	10.65	10.73	10.82	10.90	10.98

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C , AM1.5, Wind Speed 1m/s.

## Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	108(6×18)
Module Dimensions	1722×1134×35mm
Weight	22.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

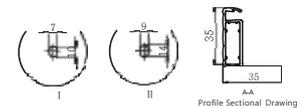
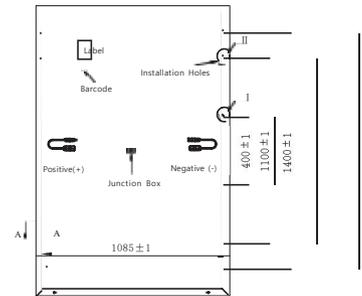
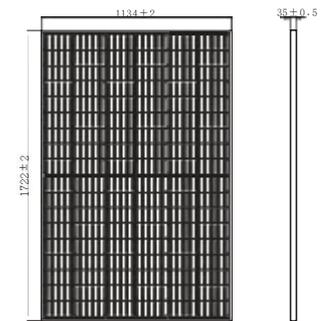
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41±3°C

## Packaging

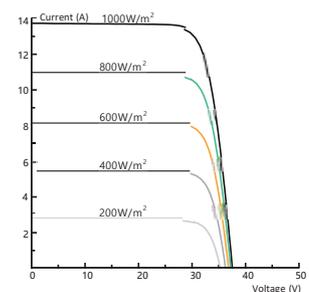
Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	806pcs	31pcs +31pcs

## Module Dimensions (mm)

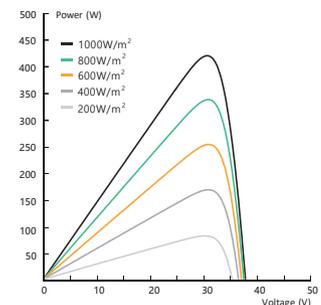


## I-V Curve

Current-Voltage Curve(420W)



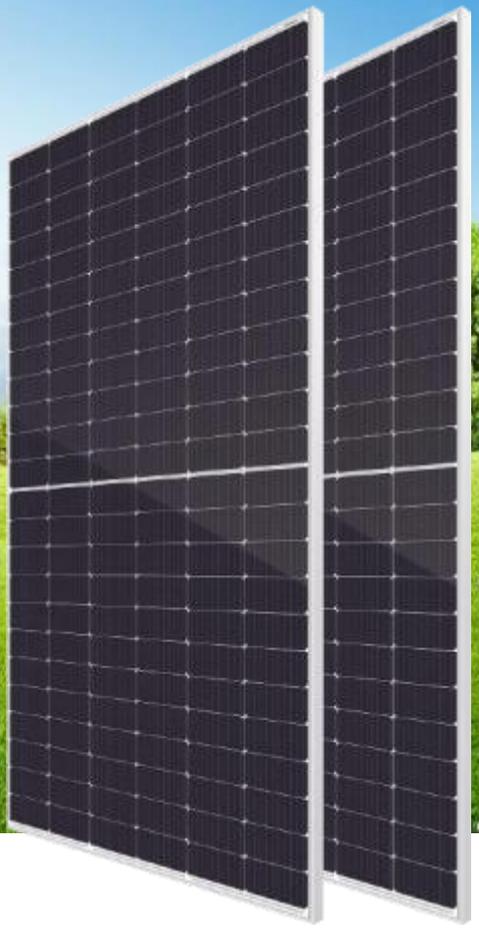
Power-Voltage Curve(420W)



**NV** 182

**NVM535~555MH5-72**  
Monofacial high efficiency mono PV module

**21.48%**  
Module Efficiency 21.48%



**PRODUCT FEATURES**

- 

**High Efficiency**  
The multi-busbar half-cut technology can boost energy density to deliver higher output.
- 

**High Reliability**  
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- 

**High ROI**  
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

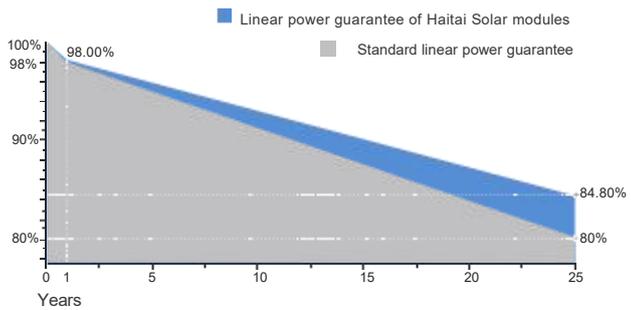
- 

**Low Degradation**  
First-year degradation is less than 2.0%, with linear degradation of 0.55% per year for 25 years.
- 

**Low Risk of Hot Spot**  
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- 

**Low Risk of Micro-Crack**  
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



- 

12 product warranty
- 

25 linear power warranty
- 

0.55% Linear attenuation of 0.55% per year within 25 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	535	540	545	550	555
Open Circuit Voltage (Voc/V)	49.38	49.53	49.68	49.83	49.98
Short Circuit Current (Isc/A)	13.54	13.63	13.71	13.80	13.88
Voltage at Maximum Power (Vmp/V)	40.88	41.03	41.18	41.31	41.43
Current at Maximum Power (Imp/A)	13.10	13.17	13.24	13.32	13.40
Module Efficiency (%)	20.71	20.90	21.10	21.29	21.48
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	400	404	408	412	416
Open Circuit Voltage (Voc/V)	45.41	45.56	45.71	45.85	46.00
Short Circuit Current (Isc/A)	11.29	11.37	11.44	11.53	11.60
Voltage at Maximum Power (Vmp/V)	37.64	37.79	37.94	38.05	38.17
Current at Maximum Power (Imp/A)	10.64	10.70	10.77	10.83	10.90

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

## Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2278×1134×35mm
Weight	28.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

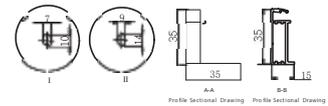
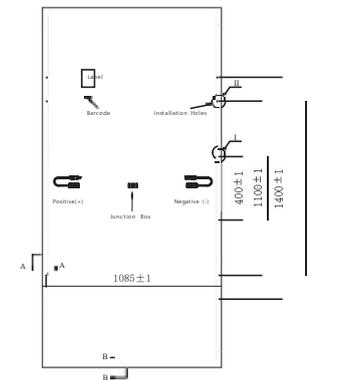
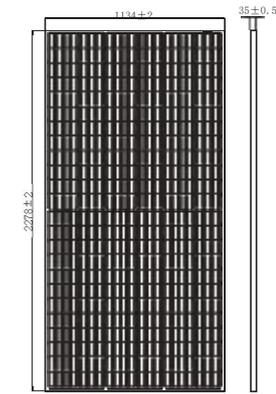
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41 ± 3°C

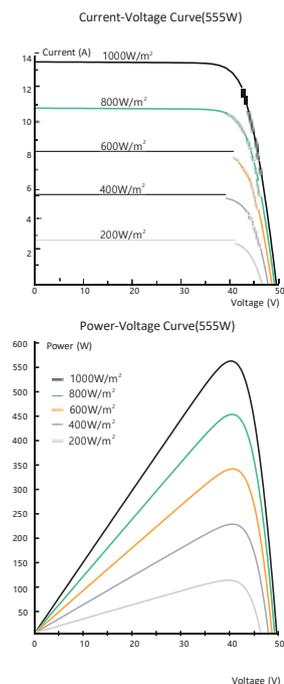
## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	620pcs	31pcs +31pcs

## Module Dimensions (mm)



## I-V Curve



**NV<sub>182</sub>**

**NVM535~555DMH5-72**

Bifacial high efficiency mono PV module

**21.48%**

Module Efficiency 21.48%

**PRODUCT FEATURES**

- 

**High Efficiency**  
Power can be generated on both sides to support additional output gains of up to 25%.  
The multi-busbar half-cut technology can boost energy density to deliver higher output.
- 

**High Reliability**  
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- 

**High ROI**  
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

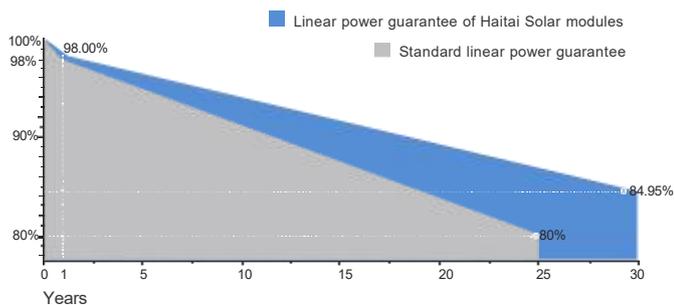
- 

**Low Degradation**  
First-year degradation is less than 2.0%, with linear degradation of 0.45% per year for 30 years.
- 

**Low Risk of Hot Spot**  
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- 

**Low Risk of Micro-Crack**  
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



 product warranty

 linear power warranty

 Linear attenuation of 0.45% per year within 30 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	535	540	545	550	555
Open Circuit Voltage (Voc/V)	49.38	49.53	49.68	49.83	49.98
Short Circuit Current (Isc/A)	13.54	13.63	13.71	13.80	13.88
Voltage at Maximum Power (Vmp/V)	40.88	41.03	41.18	41.31	41.43
Current at Maximum Power (Imp/A)	13.10	13.17	13.24	13.32	13.40
Module Efficiency (%)	20.71	20.90	21.10	21.29	21.48
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C , AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	400	404	408	412	416
Open Circuit Voltage (Voc/V)	45.41	45.56	45.71	45.85	46.00
Short Circuit Current (Isc/A)	11.29	11.37	11.44	11.53	11.60
Voltage at Maximum Power (Vmp/V)	37.64	37.79	37.94	38.05	38.17
Current at Maximum Power (Imp/A)	10.64	10.70	10.77	10.83	10.90
NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C , AM1.5,Wind Speed 1m/s.					

## Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	562	567	572	578	583
	Module Efficiency (%)	21.75	21.95	22.15	22.36	22.56
15%	Maximum Power (Pmax/W)	615	621	627	633	638
	Module Efficiency (%)	23.82	24.04	24.26	24.48	24.71
25%	Maximum Power (Pmax/W)	669	675	681	688	694
	Module Efficiency (%)	25.89	26.13	26.37	26.61	26.86

## Mechanical Data

Cell Type	182×91 mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2278×1134×30mm
Weight	32.0kg
Glass	2.0mm high transmittance, reinforced glass
Backsheet	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

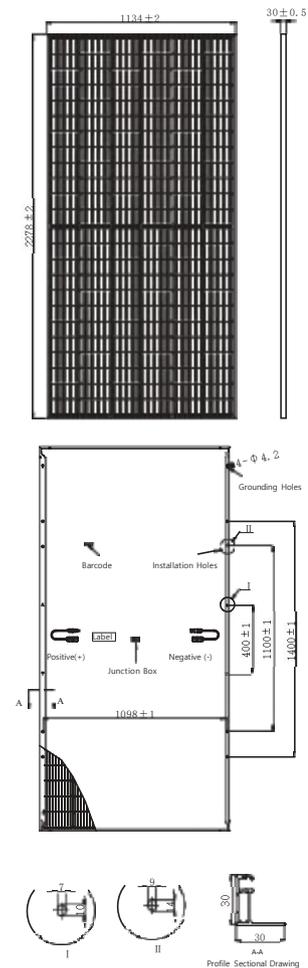
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Moudule Operating Temperature)	41 ± 3°C

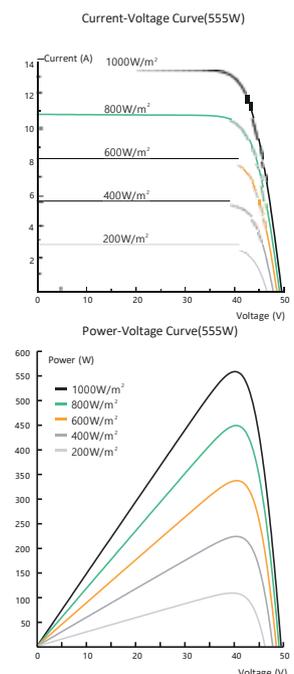
## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	720 pcs	36 pcs +36 pcs

## Module Dimensions (mm)



## I-V Curve



**NV** 210

**NVM585P-610MH8-60**

Monofacial high efficiency mono PV module

**21.55%**

Module Efficiency 21.55%



**PRODUCT FEATURES**



**High Efficiency**

The multi-busbar half-cut technology can boost energy density to deliver higher output.



**Low Degradation**

First-year degradation is less than 2.0%, with linear degradation of 0.55% per year for 25 years.



**High Reliability**

Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.



**Low Risk of Hot Spot**

The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.



**High ROI**

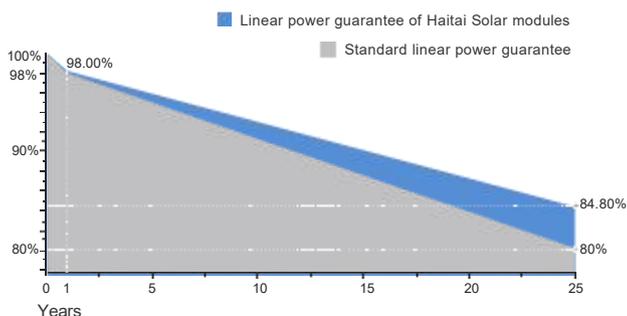
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.



**Low Risk of Micro-Crack**

The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



product warranty



linear power warranty



Linear attenuation of 0.55% per year within 25 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	585	590	595	600	605	610
Open Circuit Voltage (Voc/V)	40.89	41.09	41.29	41.49	41.69	41.89
Short Circuit Current (Isc/A)	18.38	18.43	18.48	18.53	18.58	18.64
Voltage at Maximum Power (Vmp/V)	33.79	33.99	34.19	34.39	34.59	34.79
Current at Maximum Power (Imp/A)	17.32	17.36	17.41	17.45	17.50	17.54
Module Efficiency (%)	20.67	20.85	21.02	21.20	21.38	21.55
Operating Temperature	-40° C~+85° C					
Maximum System Voltage	1000/1500V					
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C , AM1.5						

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	443	447	451	455	459	463
Open Circuit Voltage (Voc/V)	38.49	38.69	38.89	39.09	39.29	39.49
Short Circuit Current (Isc/A)	14.82	14.86	14.89	14.95	15.00	15.06
Voltage at Maximum Power (Vmp/V)	31.39	31.59	31.79	31.99	32.19	32.39
Current at Maximum Power (Imp/A)	14.12	14.16	14.19	14.23	14.26	14.30
NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C , AM1.5,Wind Speed 1m/s.						

## Mechanical Data

Cell Type	210×105mm Mono
Cell Orientation	120(6×20)
Module Dimensions	2172×1303×35mm
Weight	31.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 300 mm negative pole: 400 mm wire length can be customized
Connector	MC4 compatible connector

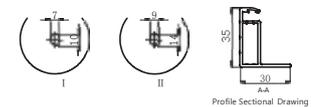
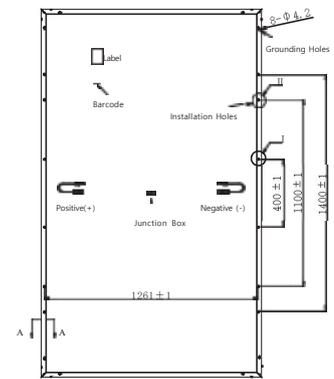
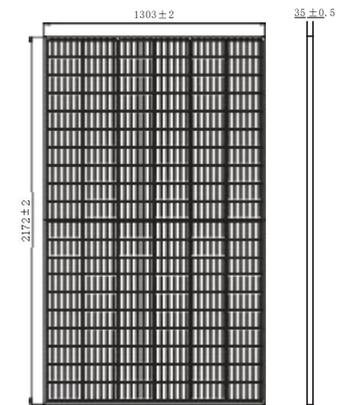
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.040%/°C
NMOT (Nominal Moudule Operating Temperature)	41±3°C

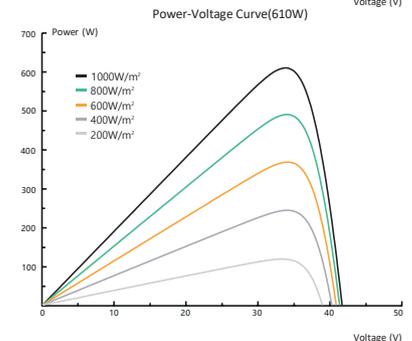
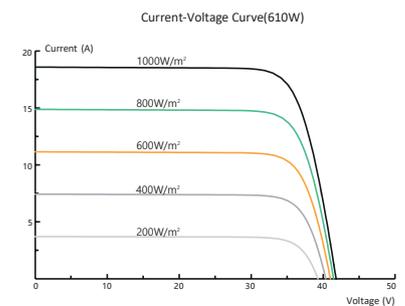
## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	527pcs	31pcs

## Module Dimensions (mm)



## I-V Curve



**NV** 210

**NVM585~610DMH8-60**

Bifacial high efficiency mono PV module

**21.55%**

Module Efficiency 21.55%

**PRODUCT FEATURES**

- 

**High Efficiency**  
Power can be generated on both sides to support additional output gains of up to 25%.  
The multi-busbar half-cut technology can boost energy density to deliver higher output.
- 

**High Reliability**  
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- 

**High ROI**  
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

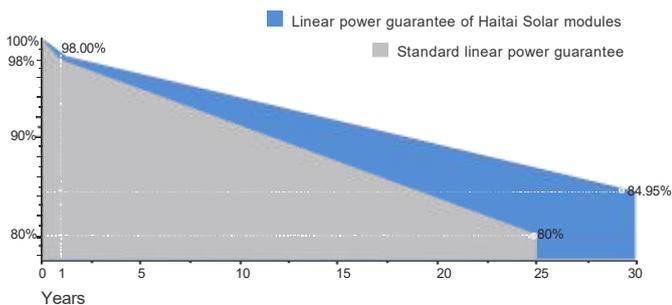
- 

**Low Degradation**  
First-year degradation is less than 2.0%, with linear degradation of 0.45% per year for 30 years.
- 

**Low Risk of Hot Spot**  
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- 

**Low Risk of Micro-Crack**  
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



 12 years product warranty

 30 years linear power warranty

 0.45% Linear attenuation of 0.45% per year within 30 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	585	590	595	600	605	610
Open Circuit Voltage (Voc/V)	40.89	41.09	41.29	41.49	41.69	41.89
Short Circuit Current (Isc/A)	18.38	18.43	18.48	18.53	18.58	18.64
Voltage at Maximum Power (Vmp/V)	33.79	33.99	34.19	34.39	34.59	34.79
Current at Maximum Power (Imp/A)	17.32	17.36	17.41	17.45	17.50	17.54
Module Efficiency (%)	20.67	20.85	21.02	21.20	21.38	21.55
Operating Temperature	-40° C~+85° C					
Maximum System Voltage	1000/1500V					
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25° C , AM1.5						

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	443	447	451	455	459	463
Open Circuit Voltage (Voc/V)	38.49	38.69	38.89	39.09	39.29	39.49
Short Circuit Current (Isc/A)	14.82	14.86	14.89	14.95	15.00	15.06
Voltage at Maximum Power (Vmp/V)	31.39	31.59	31.79	31.99	32.19	32.39
Current at Maximum Power (Imp/A)	14.12	14.16	14.19	14.23	14.26	14.30
NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20° C , AM1.5, Wind Speed 1m/s.						

## Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	614	620	625	630	635	641
	Module Efficiency (%)	21.70	21.89	22.08	22.26	22.45	22.63
15%	Maximum Power (Pmax/W)	673	679	684	690	696	702
	Module Efficiency (%)	23.77	23.97	24.18	24.38	24.58	24.79
25%	Maximum Power (Pmax/W)	731	738	744	750	756	763
	Module Efficiency (%)	25.84	26.06	26.28	26.50	26.72	26.94

## Mechanical Data

Cell Type	210×105mm Mono
Cell Orientation	120(6×20)
Module Dimensions	2172×1303×35mm
Weight	35.5kg
Glass	2.0mm high transmittance, reinforced glass
Backsheet	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 300mm negative pole: 400 mm wire length can be customized
Connector	MC4 compatible connector

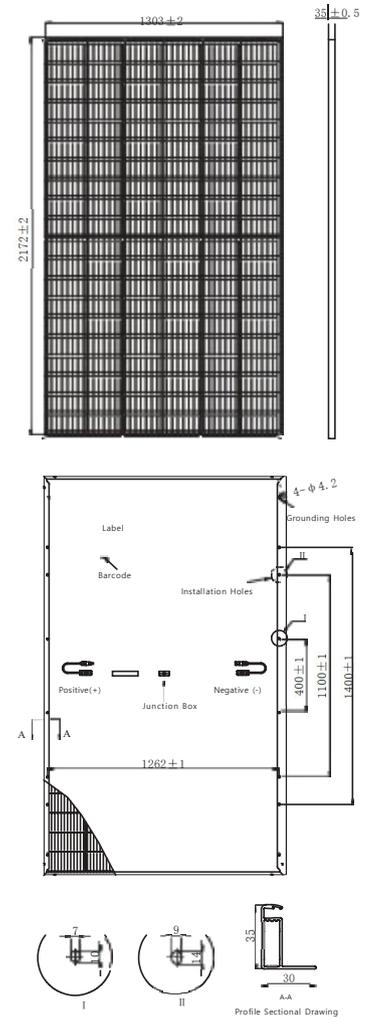
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.040%/°C
NMOT (Nominal Moudule Operating Temperature)	41 ± 3° C

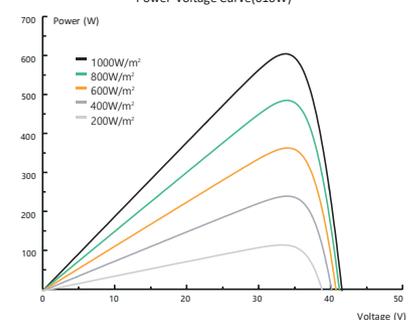
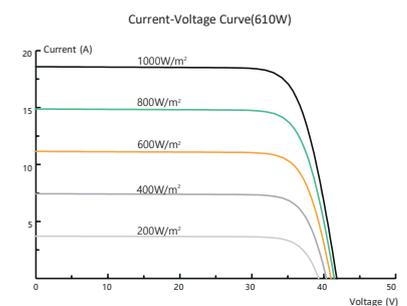
## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	527 pcs	31 pcs

## Module Dimensions (mm)



## I-V Curve

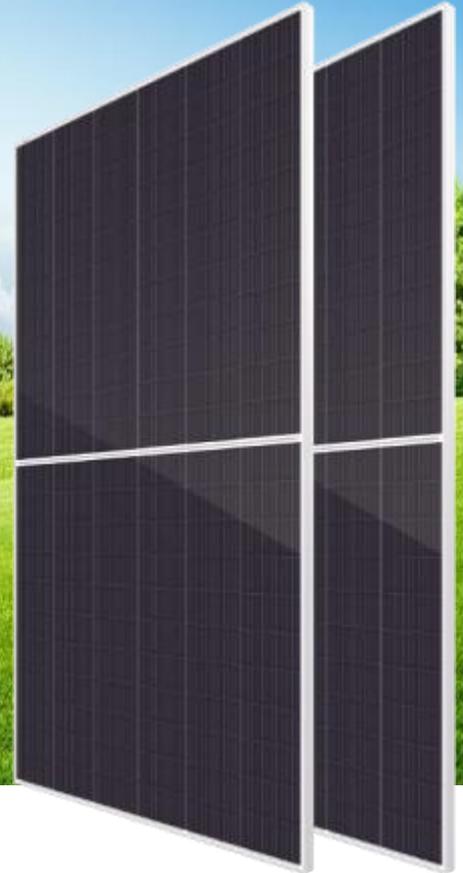


**NV<sub>210</sub>**

**NVM650~670MH8-66**  
 Monofacial high efficiency mono PV module

**21.57%**

Module Efficiency 21.57%

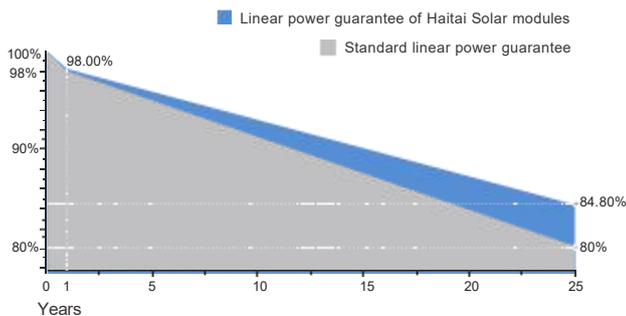


**PRODUCT FEATURES**

- 
**High Efficiency**  
 The multi-busbar half-cut technology can boost energy density to deliver higher output.
- 
**High Reliability**  
 Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- 
**High ROI**  
 Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

- 
**Low Degradation**  
 First-year degradation is less than 2.0%, with linear degradation of 0.55% per year for 25 years.
- 
**Low Risk of Hot Spot**  
 The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- 
**Low Risk of Micro-Crack**  
 The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



- 
**12** product warranty
- 
**25** linear power warranty
- 
**0.55%** Linear attenuation of 0.55% per year within 25 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	650	655	660	665	670
Open Circuit Voltage (Voc/V)	45.29	45.49	45.69	45.89	46.09
Short Circuit Current (Isc/A)	18.43	18.49	18.52	18.58	18.63
Voltage at Maximum Power (Vmp/V)	37.39	37.59	37.79	37.99	38.19
Current at Maximum Power (Imp/A)	17.39	17.43	17.47	17.51	17.55
Module Efficiency (%)	20.92	21.09	21.25	21.41	21.57
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	492	496	500	504	508
Open Circuit Voltage (Voc/V)	42.59	42.79	42.99	43.19	43.39
Short Circuit Current (Isc/A)	14.84	14.88	14.93	14.98	15.03
Voltage at Maximum Power (Vmp/V)	34.89	35.09	35.29	35.49	35.69
Current at Maximum Power (Imp/A)	14.11	14.14	14.17	14.21	14.24

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

## Mechanical Data

Cell Type	210×105mm Mono
Cell Orientation	132(6×22)
Module Dimensions	2384×1303×35mm
Weight	34.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 300 mm negative pole: 400 mm wire length can be customized
Connector	MC4 compatible connector

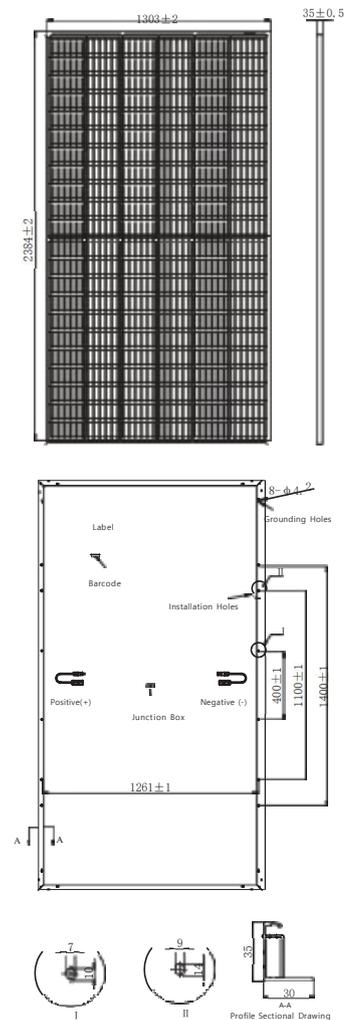
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.040%/°C
NMOT (Nominal Module Operating Temperature)	41 ± 3°C

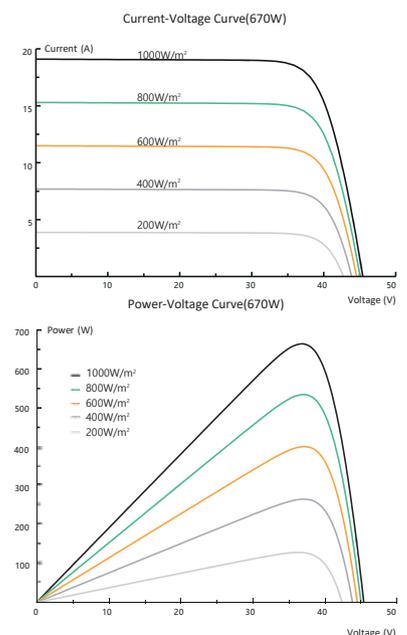
## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	527pcs	31pcs

## Module Dimensions (mm)



## I-V Curve



**NV<sub>210</sub>**

**NVM650~670DMH8-66**

Bifacial high efficiency mono PV module

**21.57%**

Module Efficiency 21.57%

**PRODUCT FEATURES**

**High Efficiency**  
 Power can be generated on both sides to support additional output gains of up to 25%.  
 The multi-busbar half-cut technology can boost energy density to deliver higher output.

**High Reliability**  
 Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.

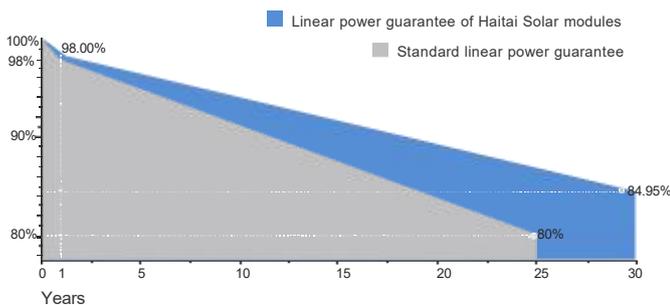
**High ROI**  
 Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

**Low Degradation**  
 First-year degradation is less than 2.0%, with linear degradation of 0.45% per year for 30 years.

**Low Risk of Hot Spot**  
 The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.

**Low Risk of Micro-Crack**  
 The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

**LINEAR PERFORMANCE WARRANTY**



**12** product warranty

**30** linear power warranty

**0.45** Linear attenuation of 0.45% per year within 30 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	650	655	660	665	670
Open Circuit Voltage (Voc/V)	45.29	45.49	45.69	45.89	46.09
Short Circuit Current (Isc/A)	18.43	18.49	18.52	18.58	18.63
Voltage at Maximum Power (Vmp/V)	37.39	37.59	37.79	37.99	38.19
Current at Maximum Power (Imp/A)	17.39	17.43	17.47	17.51	17.55
Module Efficiency (%)	20.92	21.09	21.25	21.41	21.57
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, AM1.5					

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	492	496	500	504	508
Open Circuit Voltage (Voc/V)	42.59	42.79	42.99	43.19	43.39
Short Circuit Current (Isc/A)	14.84	14.88	14.93	14.98	15.03
Voltage at Maximum Power (Vmp/V)	34.89	35.09	35.29	35.49	35.69
Current at Maximum Power (Imp/A)	14.11	14.14	14.17	14.21	14.24
NMOT (Nominal Module Operating Temperature): Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.					

## Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	683	688	693	698	704
	Module Efficiency (%)	21.97	22.14	22.31	22.48	22.65
15%	Maximum Power (Pmax/W)	748	753	759	765	771
	Module Efficiency (%)	24.06	24.25	24.43	24.62	24.80
25%	Maximum Power (Pmax/W)	813	819	825	831	838
	Module Efficiency (%)	26.16	26.36	26.56	26.76	26.96

## Mechanical Data

Cell Type	210×105mm Mono
Cell Orientation	132(6×22)
Module Dimensions	2384×1303×35mm
Weight	39.0kg
Glass	2.0mm high transmittance, reinforced glass
Backsheet	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 300mm negative pole: 400 mm wire length can be customized
Connector	MC4 compatible connector

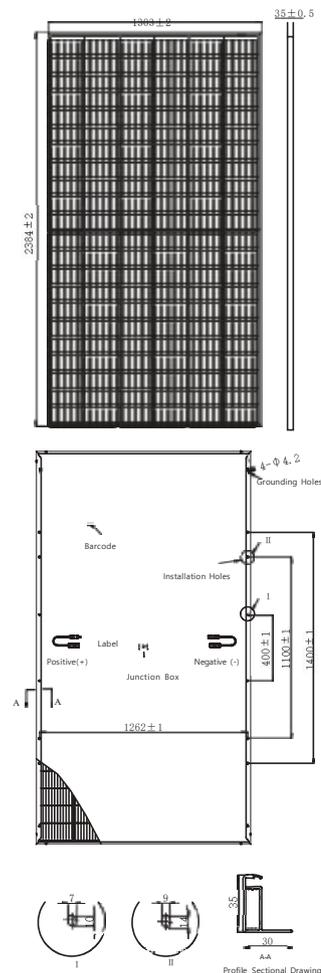
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.040%/°C
NMOT (Nominal Module Operating Temperature)	41 ± 3°C

## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	527 pcs	31 pcs

## Module Dimensions (mm)



## I-V Curve

