



## Solar Panels

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# 32cells Monocrystalline Module

## CAP-80M



**80W**

Maximum Power Output

**19.10%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**550x760x30mm**

Module Dimensions

IEC 61215/ IEC 61730

ISO9001: 2015 Quality management systems

ISO45001: Environmental management systems

ISO45001: 2018 Occupational health and safety management systems



### **0~3W**

A guaranteed 0~3W positive tolerance ensures the power output reliability.

### **High customer value**

Lower cost per kilowatt hour, high-quality silicon wafer guarantee, high power module output, excellent cost-performance advantage, is an ideal choice for solar power stations.

### **Highly reliable due to stringent quality control**

Three times stricter EL testing beyond certification requirements.

### **Fusion of MBB and half-cut cell technology**

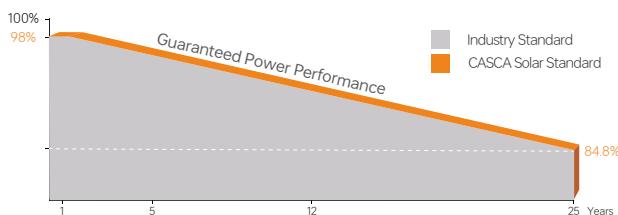
The new circuit design minimizes the impact of shadows on the power generation of solar modules. Excellent light utilization and current collection capacity effectively improve product power output and reliability.

### **Excellent Anti-PID performance**

Ensure that the scale production passes the PID test, and greatly reduce the attenuation caused by PID by optimizing the wafer process.

### **Outstanding low light performance**

The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environments.



Process Warranty



Power Warranty

12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

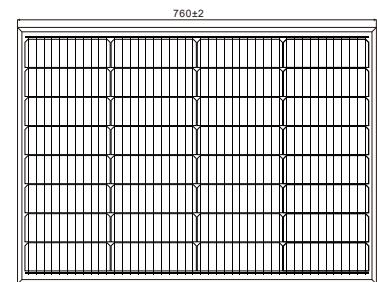
Rated Maximum Power(Pmax) [W]	80
Maximum Power Voltage(Vmp) [V]	18.24
Maximum Power Current(Imp) [A]	4.39
Open Circuit Voltage(Voc) [V]	21.80
Short Circuit Current(Isc) [A]	4.65
Module Efficiency [%]	19.10%

Irradiance 1000 W/m<sup>2</sup> Module

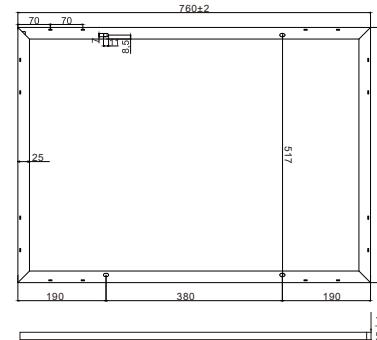
Temperature 25°C

Atmosphere Quality=15

## Module Dimension(mm)



EF055



EF1

## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	64
Maximum Power Voltage(Vmp) [V]	14.59
Maximum Power Current(Imp) [A]	3.51
Open Circuit Voltage(Voc) [V]	17.44
Short Circuit Current(Isc) [A]	3.72

Irradiance 800 W/m<sup>2</sup> Ambient

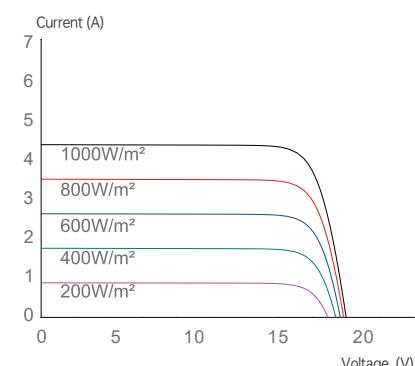
Temperature

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell	182mm
Cell Arrangement	32Pcs(4x8)
Weight	5.30Kg/Pcs
Module Dimensions	550x760x30mm
Cable	2.0mm <sup>2</sup> , (+)500mm/(-)500mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、1*bypass diode
Connector	Original MC4 / Compatible MC4
Mechanical Load	Front 5400PA / back 2400PA

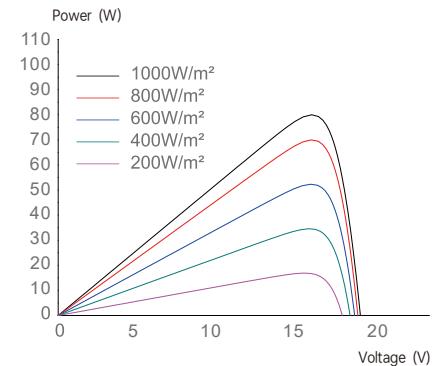
## Current-Voltage Curve (80W)



## Operating Conditions

Maximum System Voltage (V)	1000/1500VDC (IEC)
Pmax Temperature Coefficient	-0.30%/°C
Voc Temperature Coefficient	-0.25%/°C
ISC Temperature Coefficient	+0.046%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	- 40°C~+85°C
Maximum Series Fuse	25A

## Power-Voltage Curve (80W)



## Packing Configuration

20GP Container	1776Pcs
40HQ Container	4032Pcs

# 32cells Monocrystalline Module

## CAP-120M



**120W**

Maximum Power Output

**19.70%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**800x760x30mm**

Module Dimensions

IEC 61215/ IEC 61730

ISO9001: 2015 Quality management systems

ISO45001: Environmental management systems

ISO45001: 2018 Occupational health and safety management systems



### **0~3W**

A guaranteed 0~3W positive tolerance ensures the power output reliability.

### **High customer value**

Lower cost per kilowatt hour, high-quality silicon wafer guarantee, high power module output, excellent cost-performance advantage, is an ideal choice for solar power stations.

### **Highly reliable due to stringent quality control**

Three times stricter EL testing beyond certification requirements.

### **Fusion of MBB and half-cut cell technology**

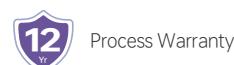
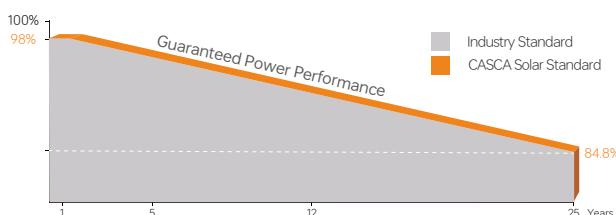
The new circuit design minimizes the impact of shadows on the power generation of solar modules. Excellent light utilization and current collection capacity effectively improve product power output and reliability.

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Ensure that the scale production passes the PID test, and greatly reduce the attenuation caused by PID by optimizing the wafer process.

### **Outstanding low light performance**

The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environments.



Process Warranty



Power Warranty

12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

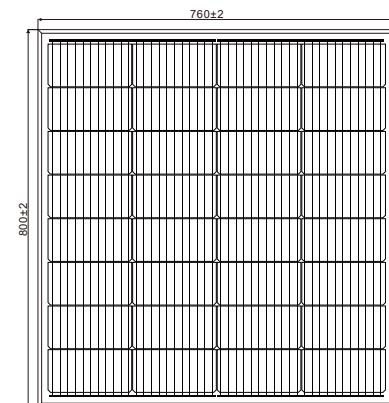
Rated Maximum Power(Pmax) [W]	120
Maximum Power Voltage(Vmp) [V]	18.24
Maximum Power Current(Imp) [A]	6.58
Open Circuit Voltage(Voc) [V]	21.80
Short Circuit Current(Isc) [A]	6.97
Module Efficiency [%]	19.70%

Irradiance 1000 W/m<sup>2</sup> Module

Temperature 25°C

Atmosphere Quality=15

## Module Dimension(mm)



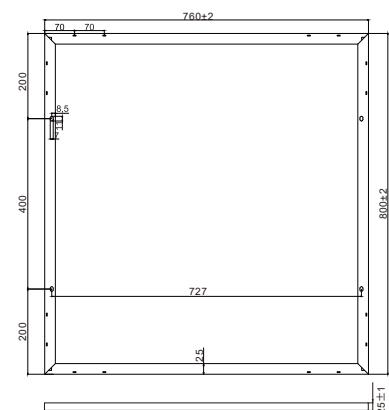
## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	96
Maximum Power Voltage(Vmp) [V]	14.59
Maximum Power Current(Imp) [A]	5.26
Open Circuit Voltage(Voc) [V]	17.44
Short Circuit Current(Isc) [A]	5.57

Irradiance 800 W/m<sup>2</sup> Ambient

Temperature 20°C

Wind Speed: 1m/s



## Mechanical Specification

Cell Type	Monocrystalline
Cell	182mm
Cell Arrangement	32Pcs(4x8)
Weight	7.30Kg/Pcs
Module Dimensions	800x760x30mm
Cable	2.0mm <sup>2</sup> , (+)500mm/(-)500mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、1*bypass diode
Connector	Original MC4 / Compatible MC4
Mechanical Load	Front 5400PA / back 2400PA

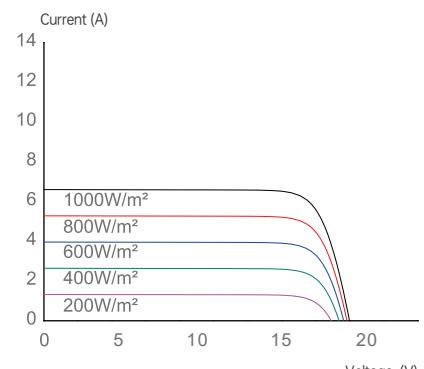
## Operating Conditions

Maximum System Voltage (V)	1000/1500VDC (IEC)
Pmax Temperature Coefficient	-0.30%/°C
Voc Temperature Coefficient	-0.25%/°C
ISC Temperature Coefficient	+0.046%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	- 40°C~+85°C
Maximum Series Fuse	25A

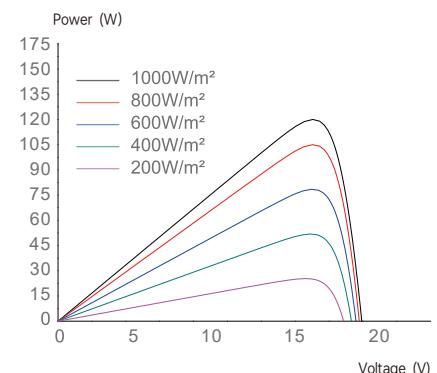
## Packing Configuration

20GP Container	1284Pcs
40HQ Container	2880Pcs

## Current-Voltage Curve (120W)



## Power-Voltage Curve (120W)



# 60 Cells Monocrystalline Module



## CAP-300M

**300W**

Maximum Power Output

**18.5%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**1640×990×30mm**

Module Dimensions

IEC 61215 / IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



**0~3W**

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**High customer value**

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**Highly reliable due to stringent quality control**

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**Fusion of MBB and half-cut cell technology**

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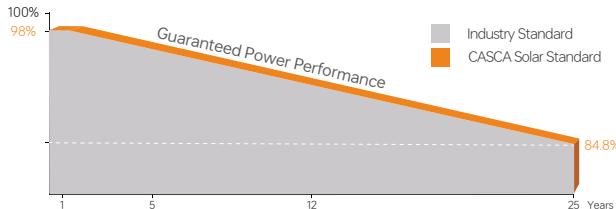
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**Outstanding low light performance**

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Industry Standard

CASCA Solar Standard



Process Warranty



Power Warranty

12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

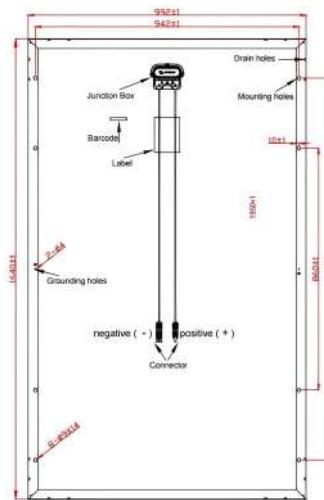
Rated Maximum Power(Pmax) [W]	300
Maximum Power Voltage(Vmp) [V]	35.0
Maximum Power Current(Imp) [A]	8.57
Open Circuit Voltage(Voc) [V]	41.6
Short Circuit Current(Isc) [A]	9.02
Module Efficiency [%]	18.5

Irradiance 1000 W/m<sup>2</sup> Module

Temperature 25°C

T<sub>atmospheric</sub>=1.5

## Module Dimension(mm)



## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	240
Maximum Power Voltage(Vmp) [V]	28
Maximum Power Current(Imp) [A]	6.85
Open Circuit Voltage(Voc) [V]	33.28
Short Circuit Current(Isc) [A]	7.21

Irradiance 800 W/m<sup>2</sup> Ambient

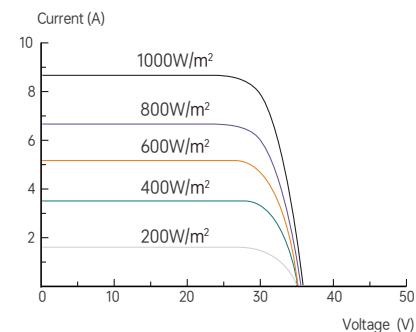
Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×130mm
Cell Arrangement	60(5×12)
Weight	17.5KG( $\pm 3\%$ )
Module Dimensions	1640×990×30mm
Cable	4.0 mm <sup>2</sup> Positive/negative: 900mm length
Front Glass	3.2mm High transmittance glass
Frame	Anodized aluminium alloy
Junction Box	IP65
Connector	Original MC4 / Compatible MC4
Mechanical Load	Front 5400PA / back 2400PA

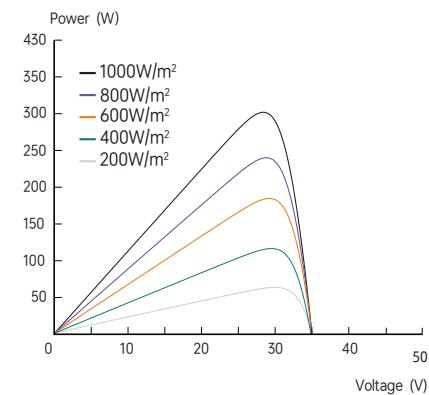
## Current-Voltage Curve (300W)



## Operating Conditions

Maximum System Voltage (V)	1000VDC/1500VDC
Pmax Temperature Coefficient	-0.350%/°C
Voc Temperature Coefficient	-0.275%/°C
ISC Temperature Coefficient	+0.046%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	-40°C+85°C
Maximum Series Fuse	25A

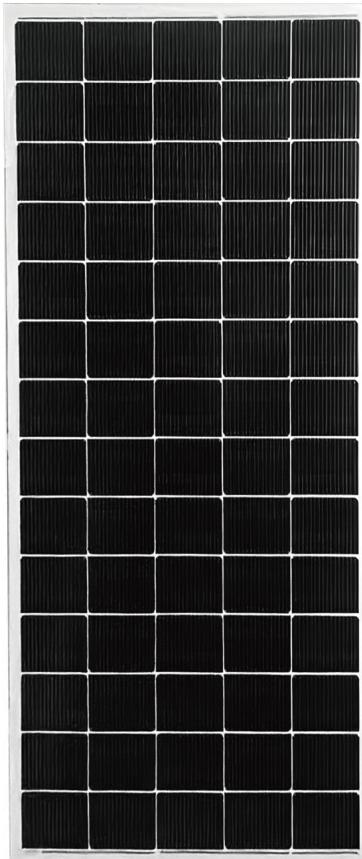
## Power-Voltage Curve (300W)



## Packing Configuration

Quantity/Pallet	36pcs/Pallet
Quantity/Container	936pcs/40HQ

# 70 Cells Monocrystalline Module



## CAP-360M

**360W**

Maximum Power Output

**18.6%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**1950×990×30mm**

Module Dimensions

IEC 61215 / IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



**0~3W**

A guaranteed 0~3W positive tolerance ensures the power output reliability.



**High customer value**

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**Highly reliable due to stringent quality control**

Three times stricter EL testing beyond certification requirements.



**Fusion of MBB and half-cut cell technology**

The new circuit design minimizes the impact of shadows on the power generation of solar modules. Excellent light utilization and current collection capacity effectively improve product power output and reliability.



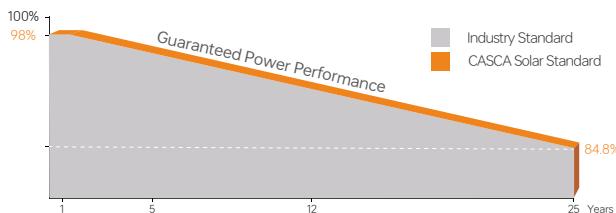
**Excellent Anti-PID performance**

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**Outstanding low light performance**

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Industry Standard  
CASCA Solar Standard



Process Warranty



Power Warranty

12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

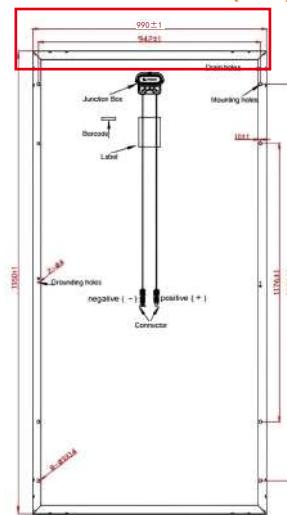
Rated Maximum Power(Pmax) [W]	360
Maximum Power Voltage(Vmp) [V]	40.5
Maximum Power Current(Imp) [A]	8.88
Open Circuit Voltage(Voc) [V]	48.0
Short Circuit Current(Isc) [A]	9.34
Module Efficiency [%]	18.6

Irradiance 1000 W/m<sup>2</sup> Module

Temperature 25°C

T<sub>mospheric</sub>=1.5

## Module Dimension(mm)



## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	288
Maximum Power Voltage(Vmp) [V]	32.4
Maximum Power Current(Imp) [A]	7.10
Open Circuit Voltage(Voc) [V]	38.4
Short Circuit Current(Isc) [A]	7.47

Irradiance 800 W/m<sup>2</sup> Ambient

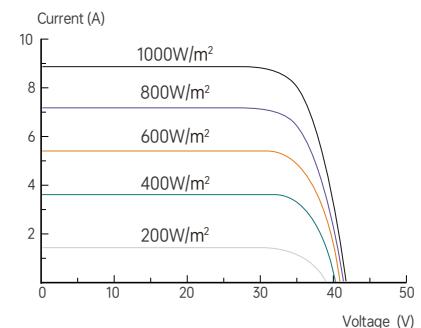
Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×130mm
Cell Arrangement	70(5×14)
Weight	21 KG( $\pm 3\%$ )
Module Dimensions	1950×990×30mm
Cable	4.0 mm <sup>2</sup> Positive/negative: 900mm length
Front Glass	3.2mm High transmittance glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Connector	Original MC4 / Compatible MC4
Mechanical Load	Front 5400PA / back 2400PA

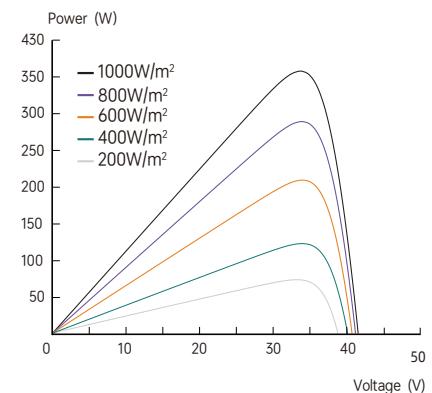
## Current-Voltage Curve (360W)



## Operating Conditions

Maximum System Voltage (V)	1000VDC/1500VDC
Pmax Temperature Coefficient	-0.350%/°C
Voc Temperature Coefficient	-0.275%/°C
ISC Temperature Coefficient	+0.046%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	-40°C+85°C
Maximum Series Fuse	25A

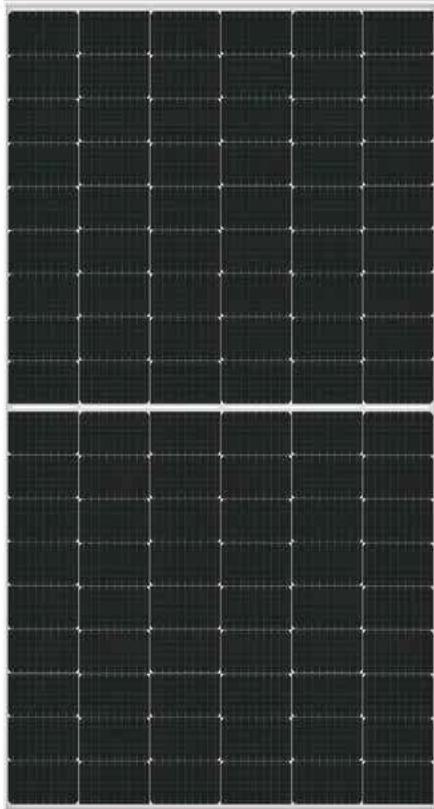
## Power-Voltage Curve (360W)



## Packing Configuration

Quantity/Pallet	36pcs/Pallet
Quantity/Container	864pcs/40HQ

# 108 Cells Monocrystalline Module



## CAP-400~420M

**420W**

Maximum Power Output

**21.48%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**1724×1134×30mm**

Module Dimensions

IEC 61215/ IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



### **0~3W**

A guaranteed 0~3W positive tolerance ensures the power output reliability.

### **High customer value**

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### **Highly reliable due to stringent quality control**

Three times stricter EL testing beyond certification requirements.

### **Fusion of MBB and half-cut cell technology**

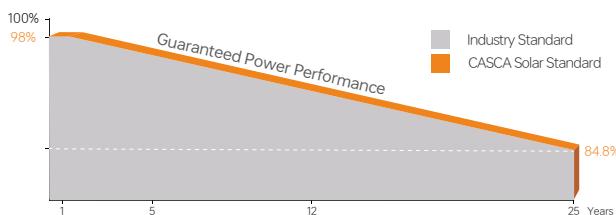
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Industry Standard  
CASCA Solar Standard



Process Warranty



Power Warranty

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25-year warranty for extra linear power output.

## Electrical Parameters at STC

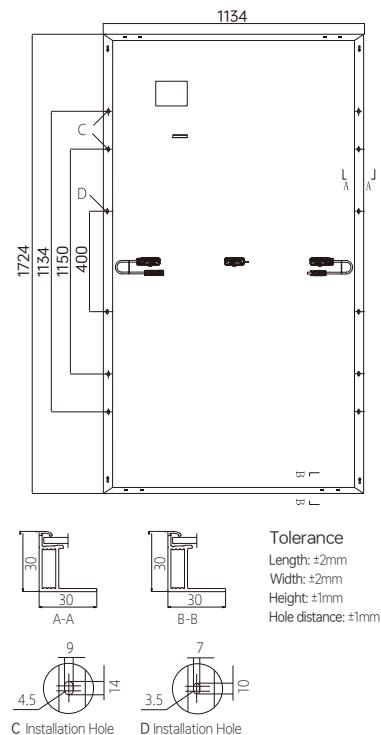
Rated Maximum Power(Pmax) [W]	400	405	410	415	420
Maximum Power Voltage(Vmp) [V]	30.75	31.00	31.25	31.49	31.73
Maximum Power Current(Imp) [A]	13.01	13.07	13.12	13.18	13.24
Open Circuit Voltage(Voc) [V]	36.75	37.00	37.25	37.50	37.75
Short Circuit Current(Isc) [A]	13.76	13.83	13.88	13.94	14.01
Module Efficiency [%]	20.46	20.72	20.97	21.23	21.48

Irradiance 1000 W/m<sup>2</sup> Module

Temperature 25°C

Atmosphere=1.5

## Module Dimension(mm)



Tolerance  
Length: ±2mm  
Width: ±2mm  
Height: ±1mm  
Hole distance: ±1mm

## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	299	302.7	306.5	310.2	313.9
Maximum Power Voltage(Vmp) [V]	28.56	28.80	29.03	29.25	29.47
Maximum Power Current(Imp) [A]	10.47	10.52	10.56	10.60	10.65
Open Circuit Voltage(Voc) [V]	34.55	34.79	35.08	35.26	35.49
Short Circuit Current(Isc) [A]	11.13	11.18	11.22	11.27	11.32

Irradiance 800 W/m<sup>2</sup> Ambient

Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×182mm
Cell Arrangement	120(6×1)
Weight	21.5kg(±3%)
Module Dimensions	1724×1134×30mm
Cable	4.0mm <sup>2</sup> positive/negative:300mm(11.8 inches) Length can be customized
Front Glass	3.2 mm high transmittance,AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	Protection class IP68
Connector	Mc4 Compatible
Mechanical Load	Front side 5400Pa/Rear side 2400Pa

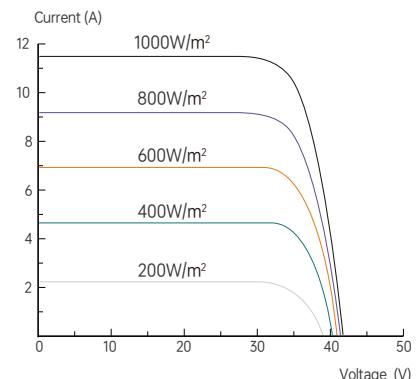
## Operating Conditions

Maximum System Voltage (V)	1500VDC
Pmax Temperature Coefficient	-0.34%/°C
Voc Temperature Coefficient	-0.28%/°C
ISC Temperature Coefficient	+0.05%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	-40°C+85°C
Maximum Series Fuse	25A

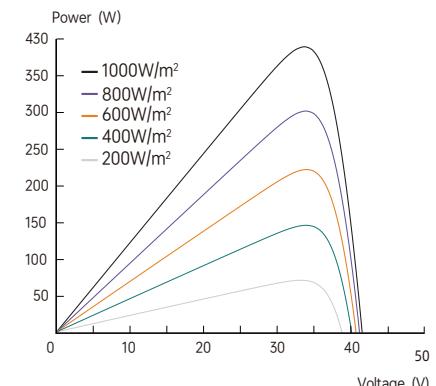
## Packing Configuration

Quantity/Pallet	36pcs/Pallet
Quantity/Container	936pcs/40HQ

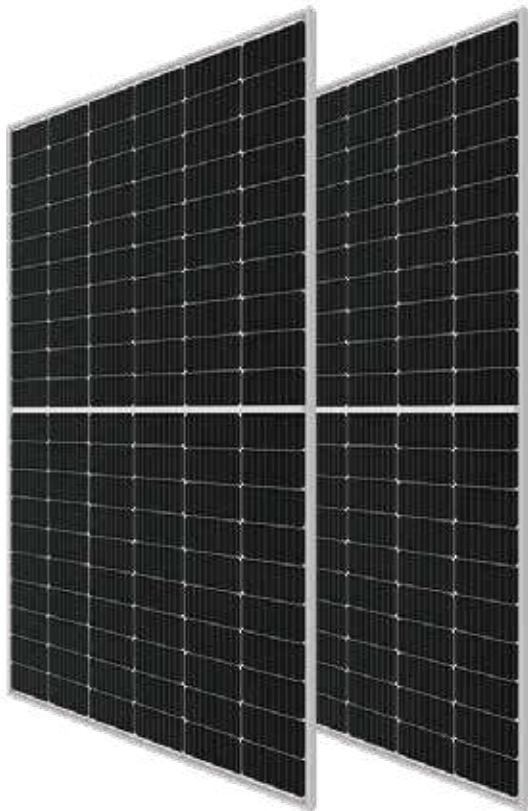
## Current-Voltage Curve (420W)



## Power-Voltage Curve (420W)



# 120 Cells Monocrystalline Module



## CAP-440~455M

**455W**

Maximum Power Output

**21.02%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**1909×1134×30mm**

Module Dimensions

IEC 61215/ IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



### 0~3W

A guaranteed 0~3W positive tolerance ensures the power output reliability.



### High customer value

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### Highly reliable due to stringent quality control

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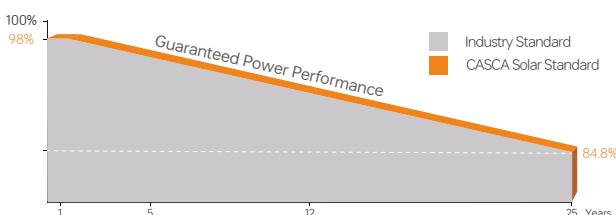
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Power Warranty

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## Electrical Parameters at STC

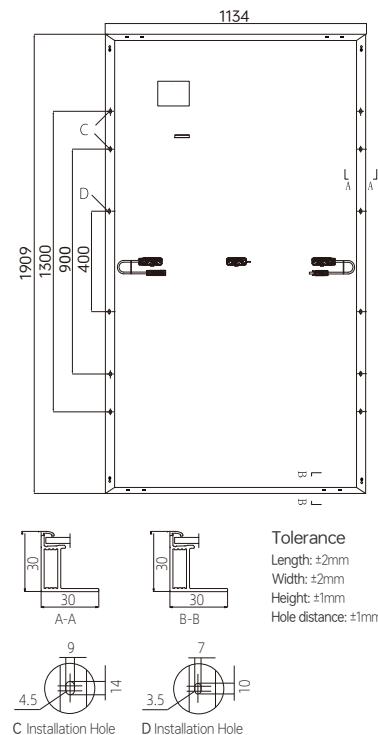
Rated Maximum Power(Pmax) [W]	440	445	450	455
Maximum Power Voltage(Vmp) [V]	33.91	34.06	34.67	34.36
Maximum Power Current(Imp) [A]	12.98	13.07	12.98	13.25
Open Circuit Voltage(Voc) [V]	40.95	41.1	41.25	41.4
Short Circuit Current(Isc) [A]	13.41	13.52	13.89	13.72
Module Efficiency [%]	20.33	20.56	20.80	21.02

Irradiance 1000 W/m² Module

Temperature 25°C

Atmosphere=1.5

## Module Dimension(mm)



## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	330	334	340	342
Maximum Power Voltage(Vmp) [V]	31.34	31.49	32.51	31.79
Maximum Power Current(Imp) [A]	10.54	10.62	10.46	10.77
Open Circuit Voltage(Voc) [V]	37.76	37.91	38.65	38.21
Short Circuit Current(Isc) [A]	11.19	11.28	11.08	11.45

Irradiance 800 W/m² Ambient

Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×182mm
Cell Arrangement	120(6×20)
Weight	23.5kg(±3%)
Module Dimensions	1909×1134×30mm
Cable	4.0mm² positive/negative:300mm(11.8 inches) Length can be customized
Front Glass	3.2 mm high transmittance,AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	工厂的是: IP68、3*Bypass Diode Protection class IP68
Connector	Mc4 Compatible
Mechanical Load	Front side 5400Pa/Rear side 2400Pa

## Operating Conditions

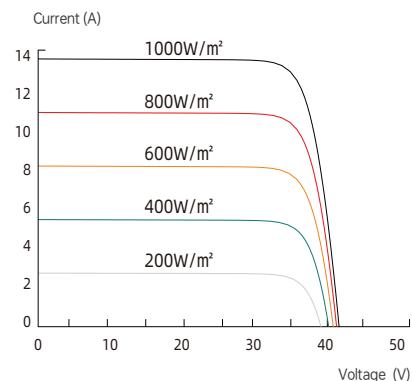
Maximum System Voltage (V)	1000VDC/1500VDC
Pmax Temperature Coefficient	-0.34 %/°C
Voc Temperature Coefficient	-0.28 %/°C
ISC Temperature Coefficient	+0.05 %/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	- 40°C+85°C
Maximum Series Fuse	20A

## Packing Configuration

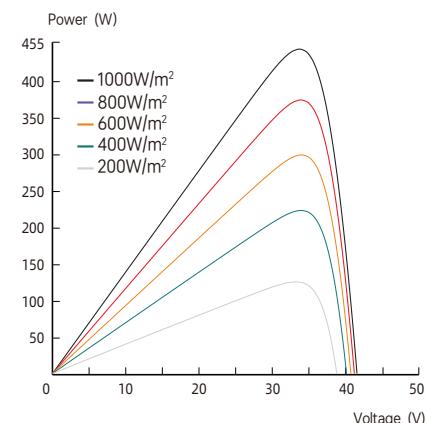
Quantity/Pallet	36pcs/Pallet
Quantity/Container	864pcs/40HQ

\* All data contained in this specification is subject to change without prior notice, and the final interpretation rights belong to CASCA.

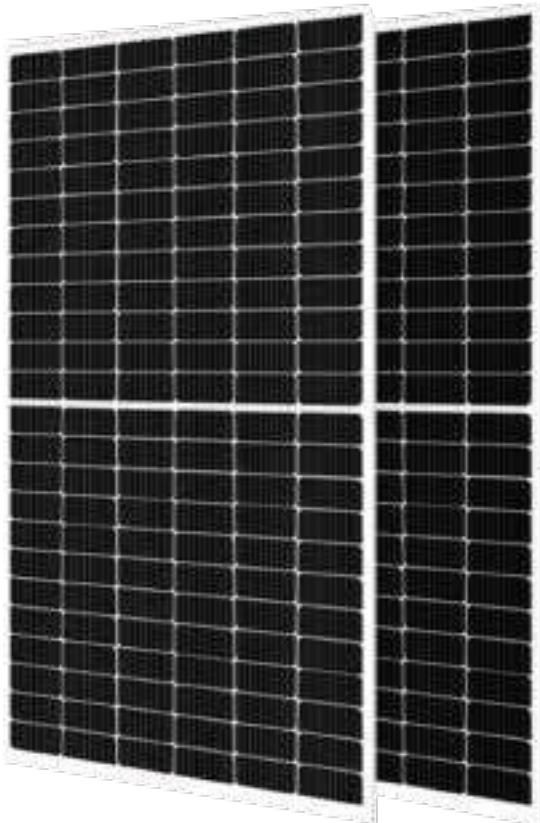
## Current-Voltage Curve (455W)



## Power-Voltage Curve (455W)



# 132cells Monocrystalline Module



## CAP-485~505M

**505W**

Maximum Power Output

**21.3%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**2094×1134×35mm**

Module Dimensions

IEC 61215/ IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



### **0~3W**

A guaranteed 0~3W positive tolerance ensures the power output reliability.

### **High customer value**

Lower cost per kilowatt hour, high-quality silicon wafer guarantee, high power module output, excellent cost-performance advantage, is an ideal choice for solar power stations.

### **Highly reliable due to stringent quality control**

Three times stricter EL testing beyond certification requirements.

### **Fusion of MBB and half-cut cell technology**

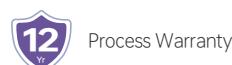
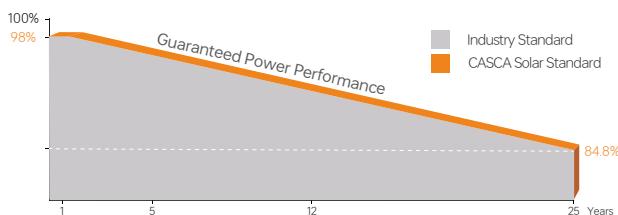
The new circuit design minimizes the impact of shadows on the power generation of solar modules. Excellent light utilization and current collection capacity effectively improve product power output and reliability.

### **Excellent Anti-PID performance**

Ensure that the scale production passes the PID test, and greatly reduce the attenuation caused by PID by optimizing the wafer process.

### **Outstanding low light performance**

The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environments.



Process Warranty



Power Warranty

12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

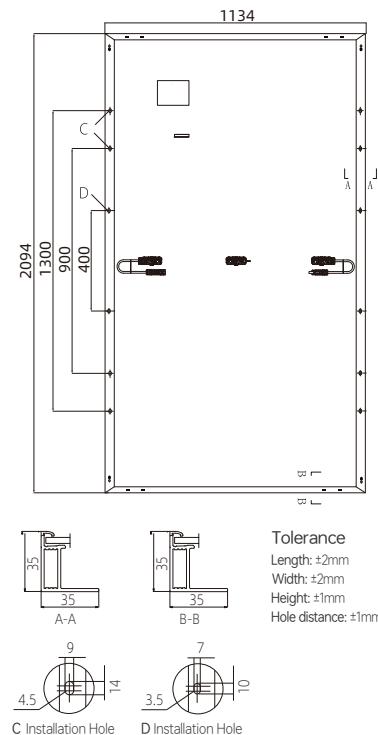
Rated Maximum Power(Pmax) [W]	485	490	495	500	505
Maximum Power Voltage(Vmp) [V]	37.81	37.99	38.17	38.35	38.53
Maximum Power Current(Imp) [A]	12.83	12.90	12.97	13.04	13.11
Open Circuit Voltage(Voc) [V]	45.20	45.33	45.46	45.59	45.72
Short Circuit Current(Isc) [A]	13.72	13.79	13.86	13.93	14.00
Module Efficiency [%]	20.4	20.6	20.8	21.1	21.3

Irradiance 1000 W/m<sup>2</sup> Module

Temperature 25°C

Atmospheric=1.5

## Module Dimension(mm)



## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	367	370	374	378	382
Maximum Power Voltage(Vmp) [V]	35.67	35.76	35.84	35.93	36.02
Maximum Power Current(Imp) [A]	10.28	10.36	10.44	10.52	10.60
Open Circuit Voltage(Voc) [V]	42.30	42.43	42.58	42.72	42.86
Short Circuit Current(Isc) [A]	11.06	11.13	11.20	11.27	11.34

Irradiance 800 W/m<sup>2</sup> Ambient

Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×182mm
Cell Arrangement	132(6×22)
Weight	26.3kg(±3%)
Module Dimensions	2094×1134×35mm
Cable	4.0mm <sup>2</sup> positive/negative:300mm(11.8 inches) Length can be customized
Front Glass	3.2 mm high transmittance,AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	Protection class IP68
Connector	Mc4 Compatible
Mechanical Load	Front side 5400Pa/Rear side 2400Pa

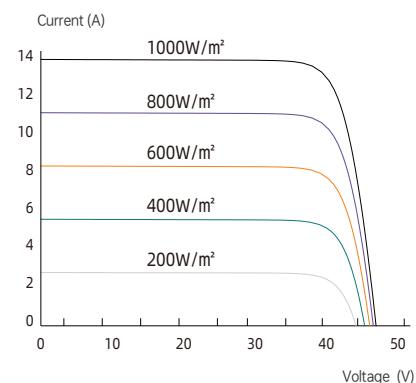
## Operating Conditions

Maximum System Voltage (V)	1000VDC/1500VDC
Pmax Temperature Coefficient	-0.34%/°C
Voc Temperature Coefficient	-0.28%/°C
ISC Temperature Coefficient	+0.05%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	- 40°C+85°C
Maximum Series Fuse	20A

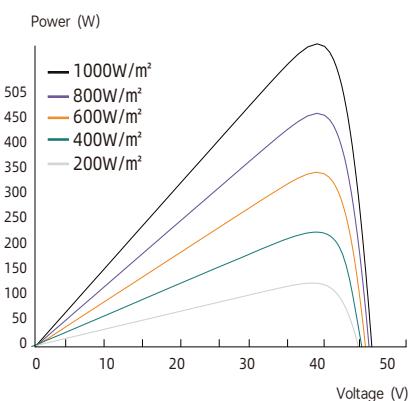
## Packing Configuration

Quantity/Pallet	31pcs/Pallet
Quantity/Container	682pcs/40HQ

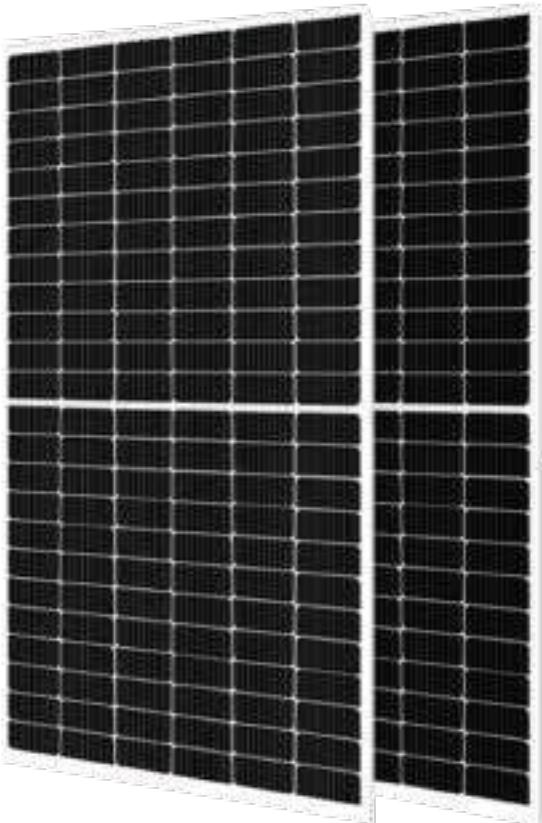
## Current-Voltage Curve (505W)



## Power-Voltage Curve (505W)



# 144cells Monocrystalline Module



## CAP-525~550M

550W

Maximum Power Output

21.3%

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

2279×1134×30mm

Module Dimensions

IEC 61215/ IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



### 0~3W

A guaranteed 0~3W positive tolerance ensures the power output reliability.



### High customer value

Lower cost per kilowatt hour, high-quality silicon wafer guarantee, high power module output, excellent cost-performance advantage, is an ideal choice for solar power stations.



### Highly reliable due to stringent quality control

Three times stricter EL testing beyond certification requirements.



### Fusion of MBB and half-cut cell technology

The new circuit design minimizes the impact of shadows on the power generation of solar modules. Excellent light utilization and current collection capacity effectively improve product power output and reliability.



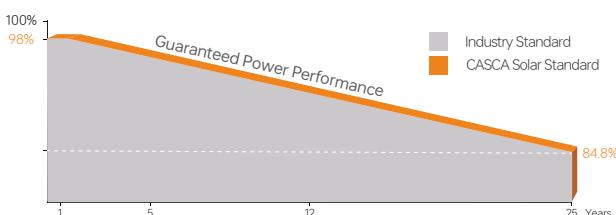
### Excellent Anti-PID performance

Ensure that the scale production passes the PID test, and greatly reduce the attenuation caused by PID by optimizing the wafer process.



### Outstanding low light performance

The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environments.



Process Warranty



Power Warranty

12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

Rated Maximum Power(Pmax) [W]	525	530	535	540	545	550
Maximum Power Voltage(Vmp) [V]	41.15	41.31	41.47	41.64	41.80	41.97
Maximum Power Current(Imp) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Open Circuit Voltage(Voc) [V]	49.15	49.30	49.45	49.60	49.75	49.95
Short Circuit Current(Isc) [A]	13.65	13.72	13.79	13.86	13.93	14.05
Module Efficiency [%]	20.3	20.5	20.7	20.9	21.1	21.30

Irradiance 1000 W/m² Module

Temperature 25°C

Atmospheric=1.5

## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	397	401	405	408	412	414
Maximum Power Voltage(Vmp) [V]	38.36	38.57	38.78	38.99	39.20	39.31
Maximum Power Current(Imp) [A]	10.35	10.39	10.43	10.47	10.51	10.53
Open Circuit Voltage(Voc) [V]	46.05	46.18	46.31	46.43	46.55	46.63
Short Circuit Current(Isc) [A]	10.97	11.01	11.05	11.09	11.13	11.17

Irradiance 800 W/m² Ambient

Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×182mm
Cell Arrangement	144(6×24)
Weight	29.0kg( $\pm 3\%$ )
Module Dimensions	2279×1134×30mm
Cable	4.0mm² positive/negative:300mm(11.8 inches) Length can be customized
Front Glass	3.2 mm high transmittance,AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	Protection class IP68
Connector	Mc4 Compatible
Mechanical Load	Front side 5400Pa/Rear side 2400Pa

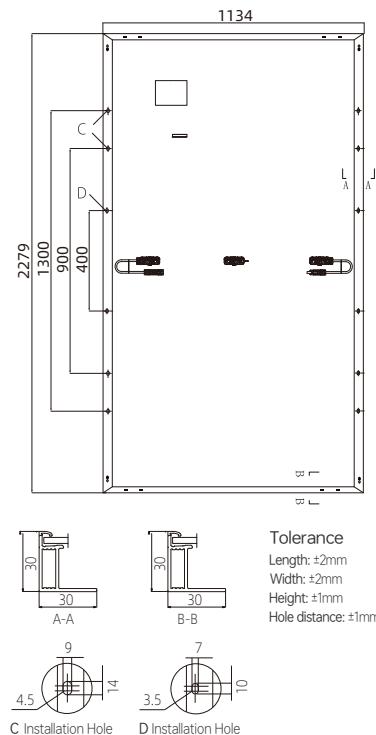
## Operating Conditions

Maximum System Voltage (V)	1000VDC/1500VDC
Pmax Temperature Coefficient	-0.34%/°C
Voc Temperature Coefficient	-0.276%/°C
ISC Temperature Coefficient	+0.046%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	-40°C+85°C
Maximum Series Fuse	25A

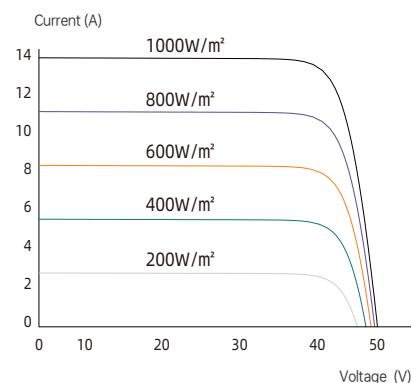
## Packing Configuration

Quantity/Pallet	31pcs/Pallet
Quantity/Container	620pcs/40HQ

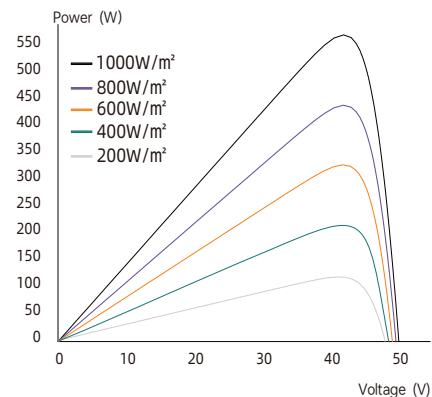
## Module Dimension(mm)



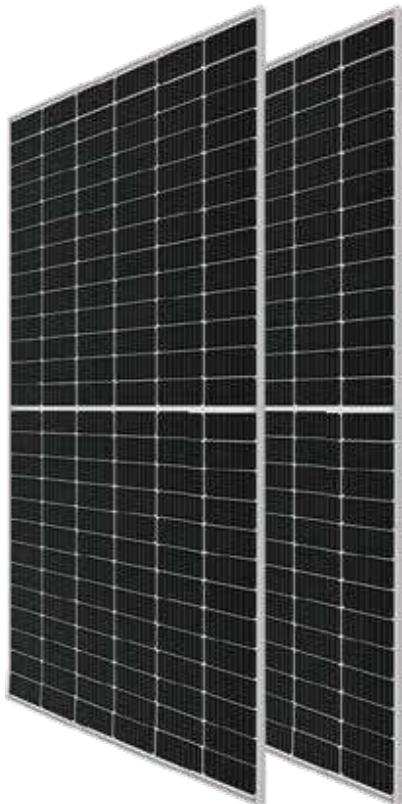
## Current-Voltage Curve (550W)



## Power-Voltage Curve (550W)



# 156cells Monocrystalline Module



## CAP-570~590M

**590W**

Maximum Power Output

**21.05%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**2474×1134×35mm**

Module Dimensions

IEC 61215/ IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



### **0~3W**

A guaranteed 0~3W positive tolerance ensures the power output reliability.

### **High customer value**

Lower cost per kilowatt hour, high-quality silicon wafer guarantee, high power module output, excellent cost-performance advantage, is an ideal choice for solar power stations.

### **Highly reliable due to stringent quality control**

Three times stricter EL testing beyond certification requirements.

### **Fusion of MBB and half-cut cell technology**

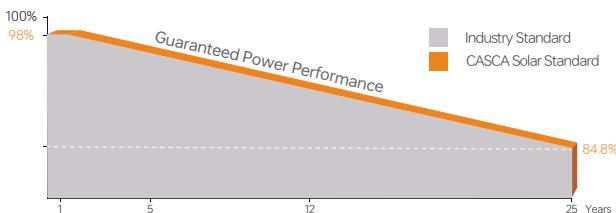
The new circuit design minimizes the impact of shadows on the power generation of solar modules. Excellent light utilization and current collection capacity effectively improve product power output and reliability.

### **Excellent Anti-PID performance**

Ensure that the scale production passes the PID test, and greatly reduce the attenuation caused by PID by optimizing the wafer process.

### **Outstanding low light performance**

The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environments.



Industry Standard  
CASCA Solar Standard



Process Warranty



Power Warranty

12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

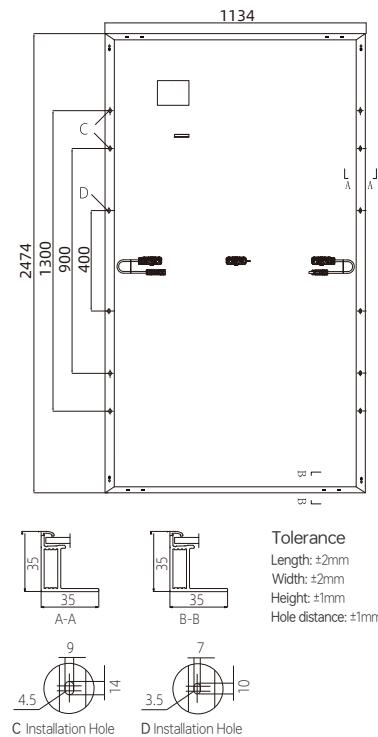
Rated Maximum Power(Pmax) [W]	570	575	580	585	590
Maximum Power Voltage(Vmp) [V]	44.02	44.17	44.32	44.47	44.62
Maximum Power Current(Imp) [A]	12.96	13.03	13.1	13.17	13.23
Open Circuit Voltage(Voc) [V]	53.22	53.37	53.52	53.67	53.82
Short Circuit Current(Isc) [A]	13.4	13.48	13.56	13.64	13.72
Module Efficiency [%]	20.34	20.51	20.69	20.87	21.05

Irradiance 1000 W/m<sup>2</sup> Module

Temperature 25°C

Atmospheric=1.5

## Module Dimension(mm)



## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	426	430	434	438	442
Maximum Power Voltage(Vmp) [V]	40.5	40.65	40.8	40.95	41.1
Maximum Power Current(Imp) [A]	10.53	10.59	10.65	10.71	10.77
Open Circuit Voltage(Voc) [V]	48.91	49.06	49.21	49.36	49.51
Short Circuit Current(Isc) [A]	11.17	11.24	11.31	11.38	11.44

Irradiance 800 W/m<sup>2</sup> Ambient

Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×182mm
Cell Arrangement	156(6×26)
Weight	31.0kg(±3%)
Module Dimensions	2474×1134×35mm
Cable	4.0mm <sup>2</sup> positive/negative:300mm(11.8 inches) Length can be customized
Front Glass	3.2 mm high transmittance,AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	Protection class IP68
Connector	Mc4 Compatible
Mechanical Load	Front side 5400Pa/Rear side 2400Pa

## Operating Conditions

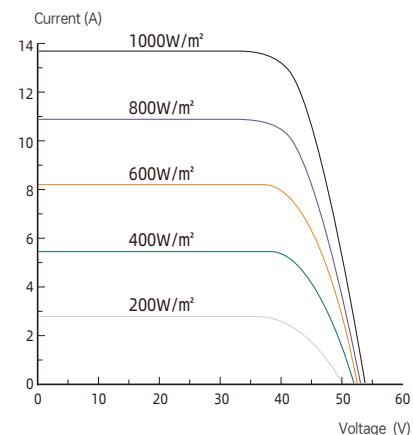
Maximum System Voltage (V)	1000VDC/1500VDC
Pmax Temperature Coefficient	-0.34%/°C
Voc Temperature Coefficient	-0.28%/°C
ISC Temperature Coefficient	+0.05%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	- 40°C+85°C
Maximum Series Fuse	20A

## Packing Configuration

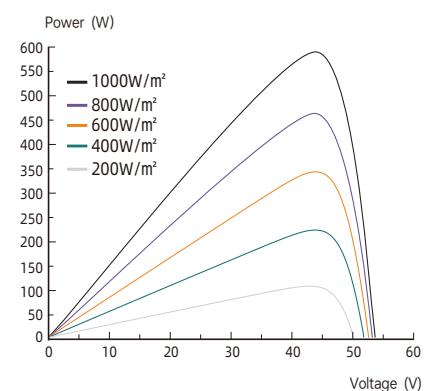
Quantity/Pallet	31pcs/Pallet
Quantity/Container	558pcs/40HQ

\* All data contained in this specification is subject to change without prior notice, and the final interpretation rights belong to CASCA.

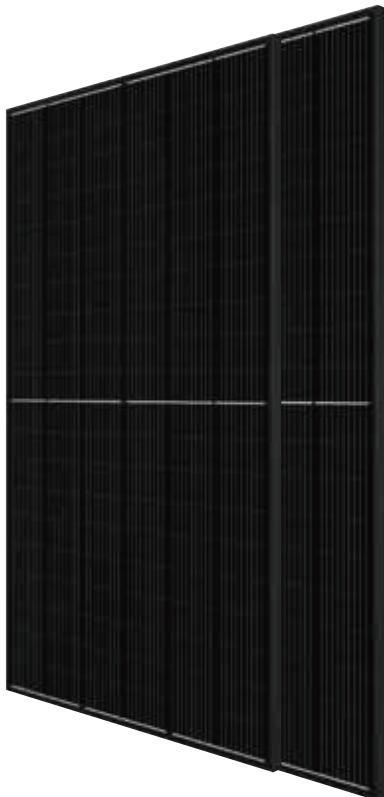
## Current-Voltage Curve (590W)



## Power-Voltage Curve (590W)



# 108cells Monocrystalline Black Module



## CAP-400~420M

**420W**

Maximum Power Output

Power Shorting Tolerance: 0~+3W

**21.48%**

Maximum Module Efficiency

**1724×1134×30mm**

Module Dimensions

IEC 61215/ IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



### 0~3W

A guaranteed 0~3W positive tolerance ensures the power output reliability.

### High customer value

Lower cost per kilowatt hour, high-quality silicon wafer guarantee, high power module output, excellent cost-performance advantage, is an ideal choice for solar power stations.

### Highly reliable due to stringent quality control

Three times stricter EL testing beyond certification requirements.

### Fusion of MBB and half-cut cell technology

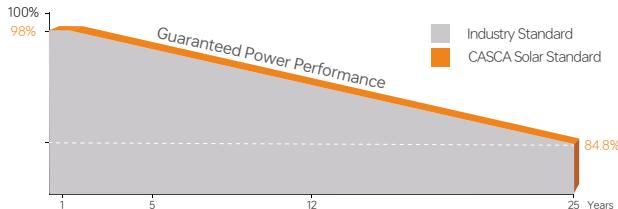
The new circuit design minimizes the impact of shadows on the power generation of solar modules. Excellent light utilization and current collection capacity effectively improve product power output and reliability.

### Excellent Anti-PID performance

Ensure that the scale production passes the PID test, and greatly reduce the attenuation caused by PID by optimizing the wafer process.

### Outstanding low light performance

The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environments.



Process Warranty



Power Warranty

12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

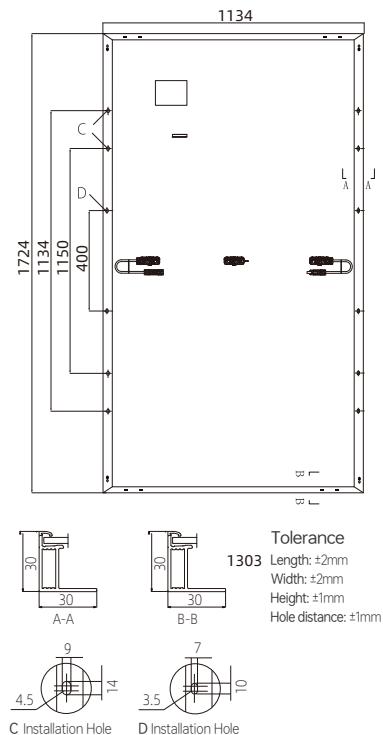
Rated Maximum Power(Pmax) [W]	400	405	410	415	420
Maximum Power Voltage(Vmp) [V]	30.75	31.00	31.25	31.49	31.73
Maximum Power Current(Imp) [A]	13.01	13.07	13.12	13.18	13.24
Open Circuit Voltage(Voc) [V]	36.75	37.00	37.25	37.50	37.75
Short Circuit Current(Isc) [A]	13.76	13.83	13.88	13.94	14.01
Module Efficiency [%]	20.46	20.72	20.97	21.23	21.48

Irradiance 1000 W/m<sup>2</sup> Module

Temperature 25°C

Atmospheric=1.5

## Module Dimension(mm)



## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	299	302.7	306.5	310.2	313.9
Maximum Power Voltage(Vmp) [V]	28.56	28.80	29.03	29.25	29.47
Maximum Power Current(Imp) [A]	10.47	10.52	10.56	10.60	10.65
Open Circuit Voltage(Voc) [V]	34.55	34.79	35.08	35.26	35.49
Short Circuit Current(Isc) [A]	11.13	11.18	11.22	11.27	11.32

Irradiance 800 W/m<sup>2</sup> Ambient

Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×182mm
Cell Arrangement	108(6×18)
Weight	21.5kg(±3%)
Module Dimensions	1724×1134×30mm
Cable	4.0mm <sup>2</sup> positive/negative:300mm(11.8 inches) Length can be customized
Front Glass	3.2 mm high transmittance,AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	Protection class IP68
Connector	Mc4 Compatible
Mechanical Load	Front side 5400Pa/Rear side 2400Pa

## Operating Conditions

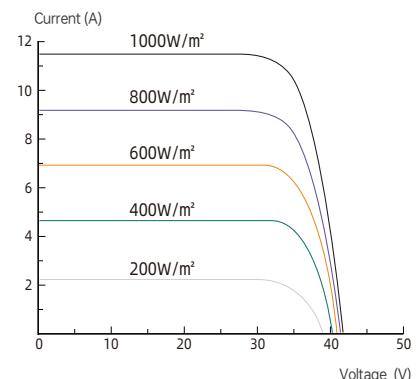
Maximum System Voltage (V)	1500VDC
Pmax Temperature Coefficient	-0.34%/°C
Voc Temperature Coefficient	-0.28%/°C
ISC Temperature Coefficient	+0.05%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	- 40°C+85°C
Maximum Series Fuse	25A

## Packing Configuration

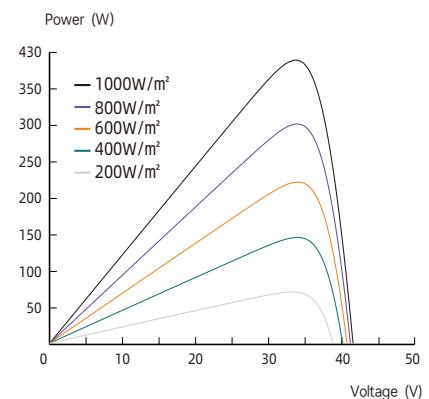
Quantity/Pallet	36pcs/Pallet
Quantity/Container	936pcs/40HQ

\* All data contained in this specification is subject to change without prior notice, and the final interpretation rights belong to CASCA.

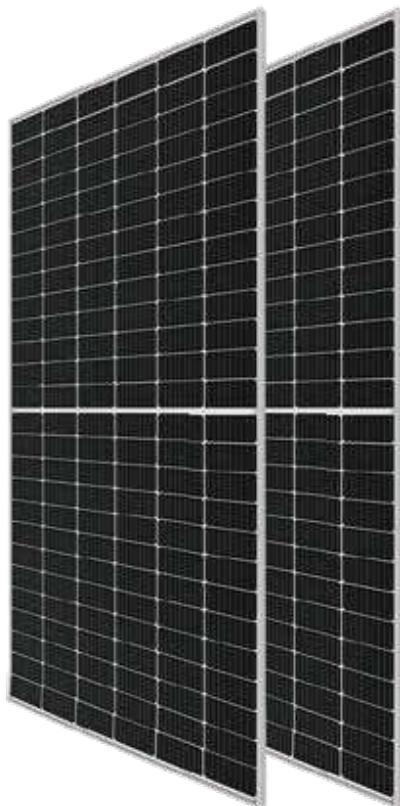
## Current-Voltage Curve (420W)



## Power-Voltage Curve (420W)



# 144cells Monocrystalline Bifacial Dual Glass Module



## CAP-N-575M

**575W**

Maximum Power Output

**22.2%**

Maximum Module Efficiency

Power Shorting Tolerance: 0~+3W

**2279x1134x30mm**

Module Dimensions

IEC 61215/ IEC 61730

Fire safety class: Class C according to UL 790

ISO 9001: Quality Management System

ISO 14001: Environmental Management



**0~3W**

A guaranteed 0~3W positive tolerance ensures the power output reliability.



**High customer value**

Lower cost per kilowatt hour, high-quality silicon wafer guarantee, high power module output, excellent cost-performance advantage, is an ideal choice for solar power stations.



**Highly reliable due to stringent quality control**

Three times stricter EL testing beyond certification requirements.



**Fusion of MBB and half-cut cell technology**

The new circuit design minimizes the impact of shadows on the power generation of solar modules. Excellent light utilization and current collection capacity effectively improve product power output and reliability.



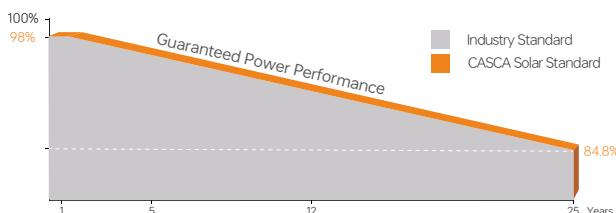
**Excellent Anti-PID performance**

Ensure that the scale production passes the PID test, and greatly reduce the attenuation caused by PID by optimizing the wafer process.



**Outstanding low light performance**

The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environments.



Industry Standard  
CASCA Solar Standard



Process Warranty



Power Warranty

**Industry Leading Linear Power Warranty.**  
12-year warranty for materials and processing.  
25-year warranty for extra linear power output.

## Electrical Parameters at STC

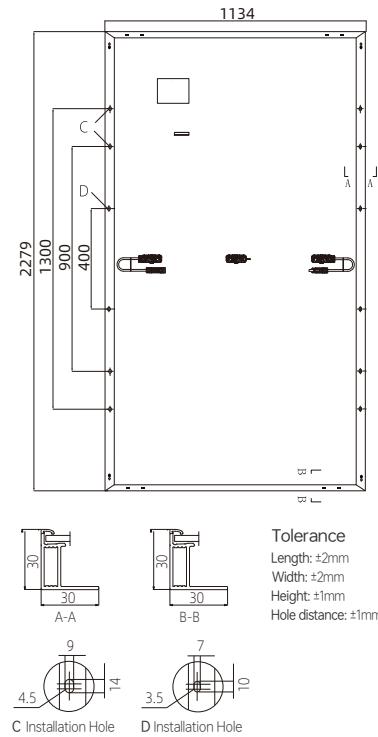
Rated Maximum Power(Pmax) [W]	575
Maximum Power Voltage(Vmp) [V]	44.17
Maximum Power Current(Imp) [A]	13.02
Open Circuit Voltage(Voc) [V]	52.18
Short Circuit Current(Isc) [A]	13.61
Module Efficiency [%]	22.2

Irradiance 1000 W/m<sup>2</sup> Module

Temperature 25°C

Tmospheric=1.5

## Module Dimension(mm)



## Electrical Parameters at NMOT

Rated Maximum Power(Pmax)[W]	432
Maximum Power Voltage(Vmp) [V]	39.78
Maximum Power Current(Imp) [A]	10.87
Open Circuit Voltage(Voc) [V]	48.70
Short Circuit Current(Isc) [A]	11.55

Irradiance 800 W/m<sup>2</sup> Ambient

Temperature 20°C

Wind Speed: 1m/s

## Mechanical Specification

Cell Type	Monocrystalline
Cell Dimensions	182×182mm
Cell Arrangement	144 (2x72)
Weight	28kg(±3%)
Module Dimensions	2279x1134x30mm
Cable	4.0mm <sup>2</sup> positive/negative:300mm(11.8 inches) Length can be customized
Front Glass	3.2 mm high transmittance,AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	Protection class IP68
Connector	Mc4 Compatible
Mechanical Load	Front side 5400Pa/Rear side 2400Pa

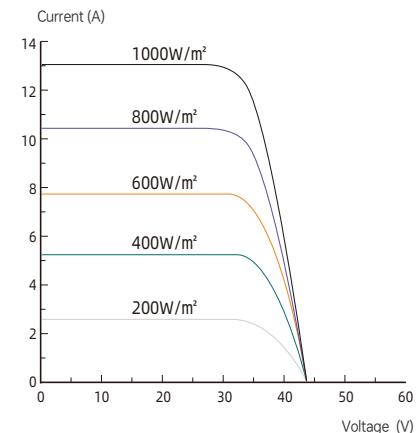
## Operating Conditions

Maximum System Voltage (V)	1000VDC/1500VDC
Pmax Temperature Coefficient	-0.34%/°C
Voc Temperature Coefficient	-0.28%/°C
ISC Temperature Coefficient	+0.05%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	- 40°C+85°C
Maximum Series Fuse	25A

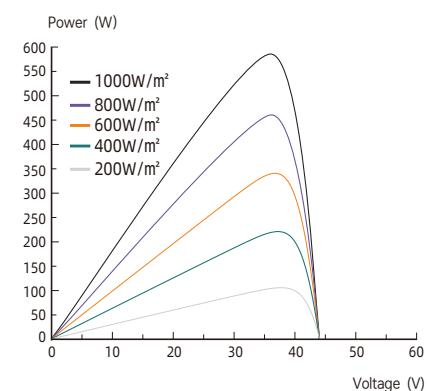
## Packing Configuration

Quantity/Pallet	36pcs/Pallet
Quantity/Container	720pcs/40HQ

## Current-Voltage Curve (575W)



## Power-Voltage Curve (575W)





YOUR RELIABLE PARTNER FOR GREEN POWER



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