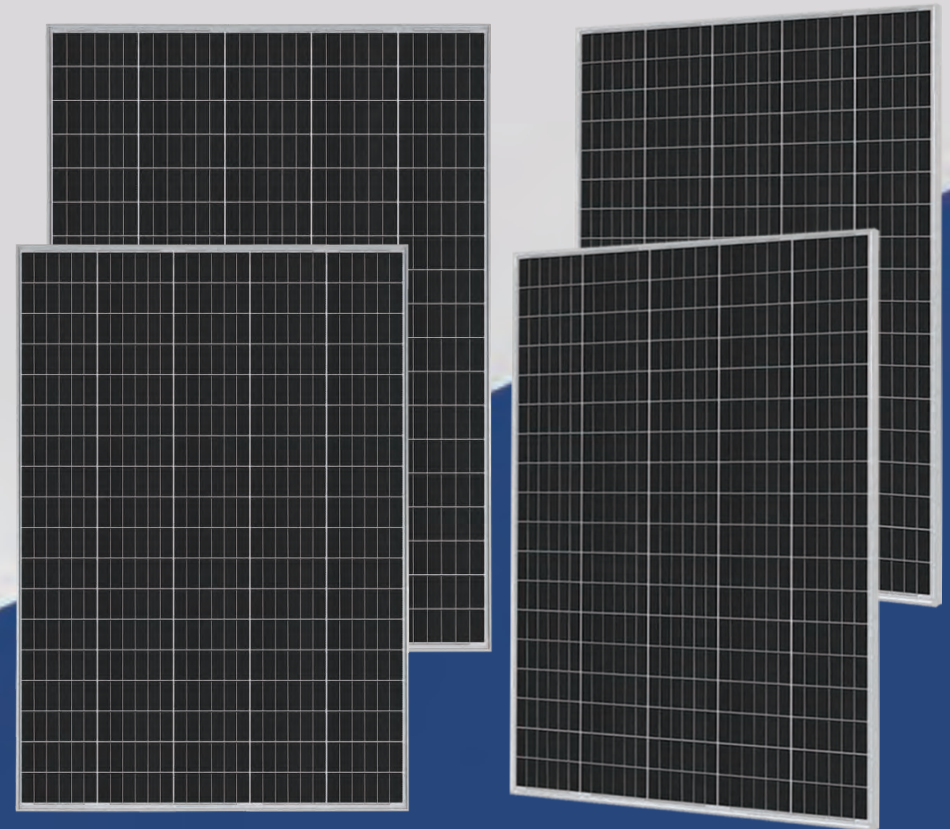


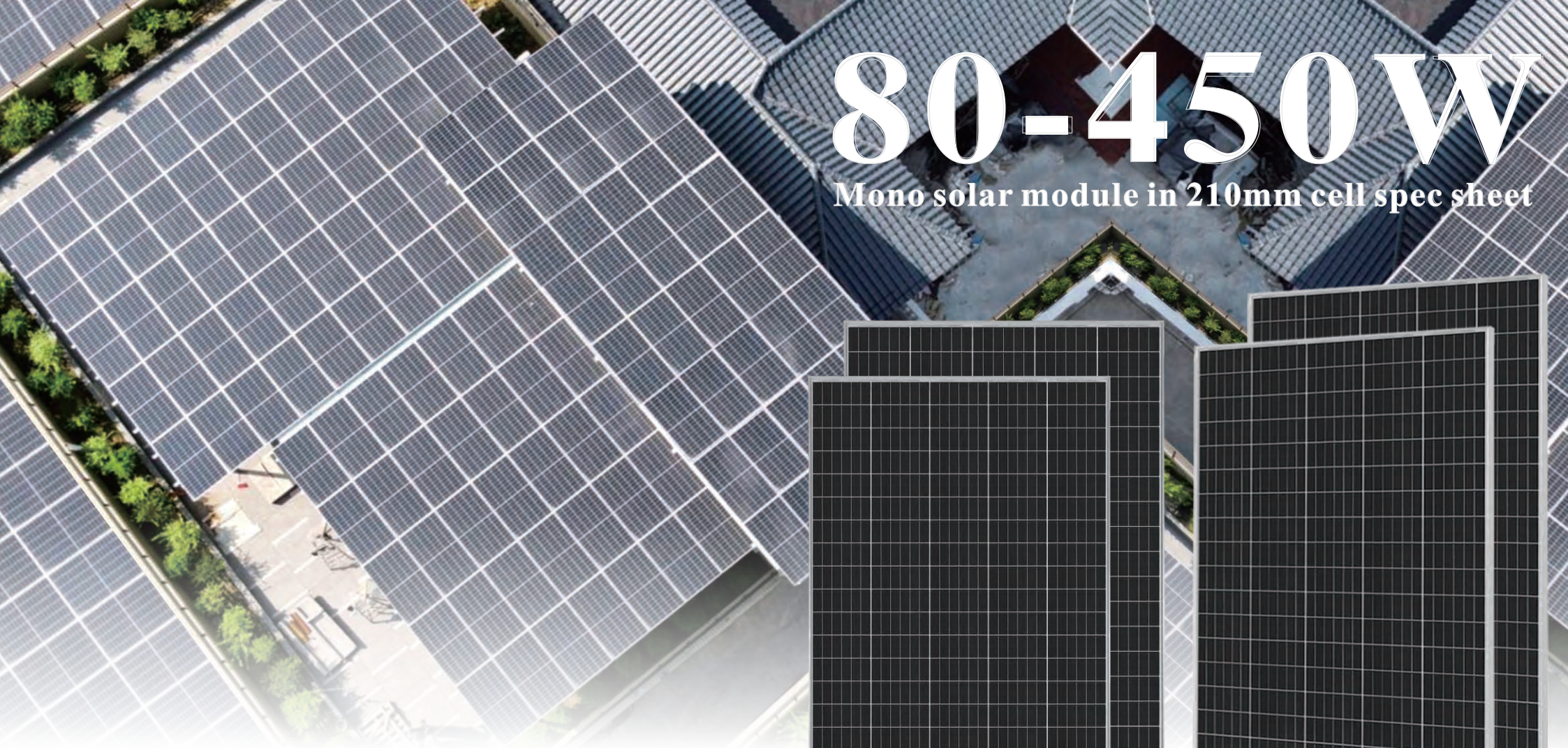
80-450W

Mono solar module in 210mm cell spec sheet



80-450W

Mono solar module in 210mm cell spec sheet



Solar module features



Multi Busbar Technology

Better light trapping and current collection to improve, Effectively improve the module's power output and reliability.



Low light performance

The special solar cell technology has excellent low light power generation performance.



Better resistance to hot spots

The use of half cell structure and special circuit design is less shade loss with better temperature coefficient and thermal spot resistance ability

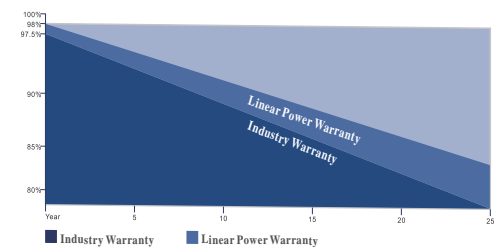


Adaptability to harsh environments

High performance materials are suitable for coastal, farm, desert and other harsh environmental conditions, glass surface is anti-reflective and easy to clean, minimizing power generation losses caused by dirt and dust.

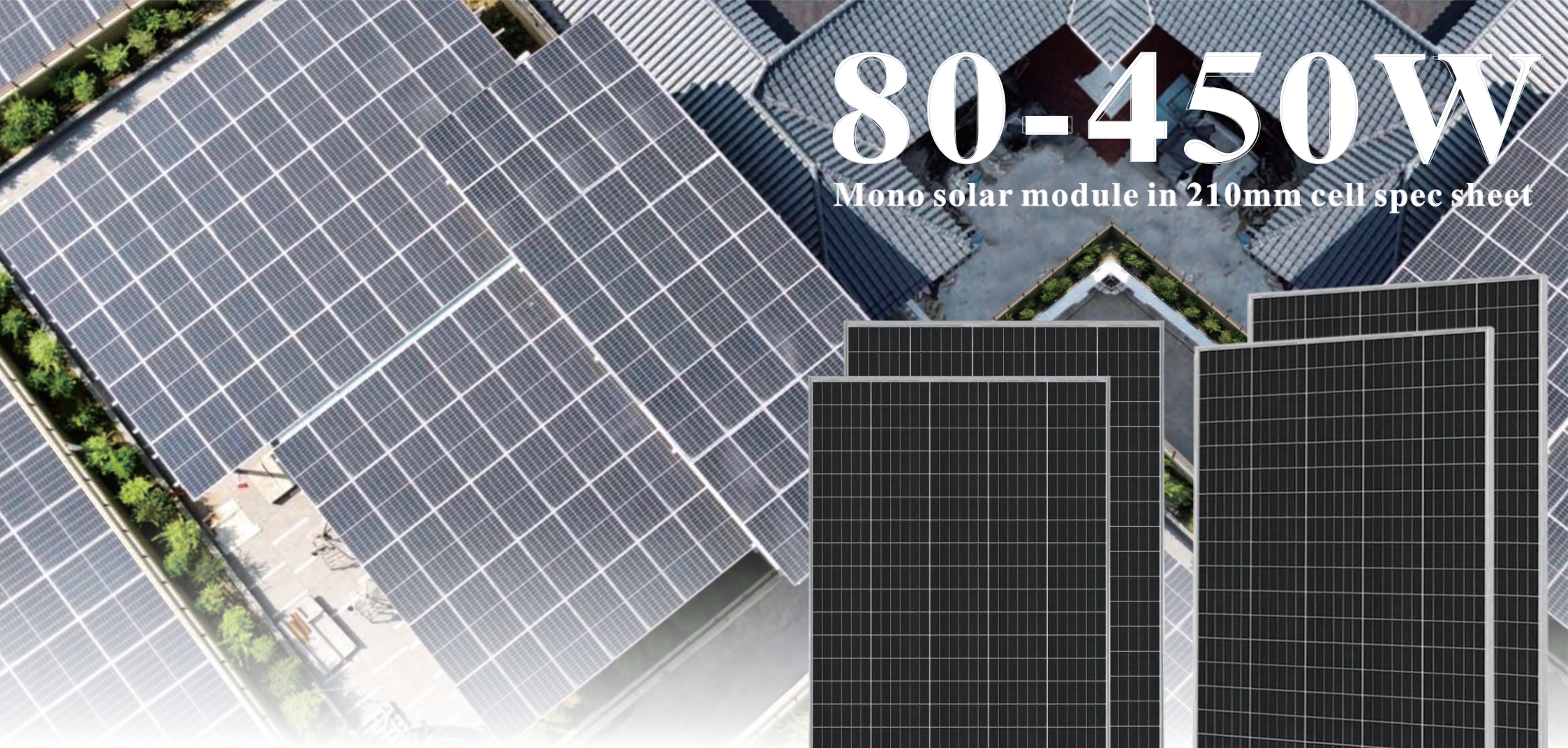
First-class Quality Assurance

- 25-year linear power output warranty
- 10-year warranty for material and technology



80-450W

Mono solar module in 210mm cell spec sheet



Solar module features



Multi Busbar Technology

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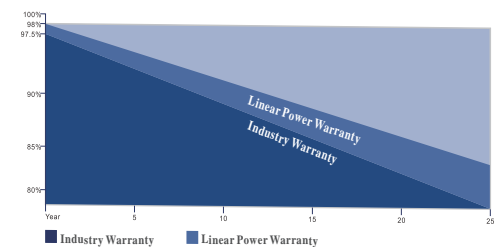


Adaptability to harsh environments

High performance materials are suitable for coastal, farm, desert and other harsh environmental conditions, glass surface is anti-reflective and easy to clean, minimizing power generation losses caused by dirt and dust.

First-class Quality Assurance

- 25-year linear power output warranty
- 10-year warranty for material and technology



QN-210M45050.94

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

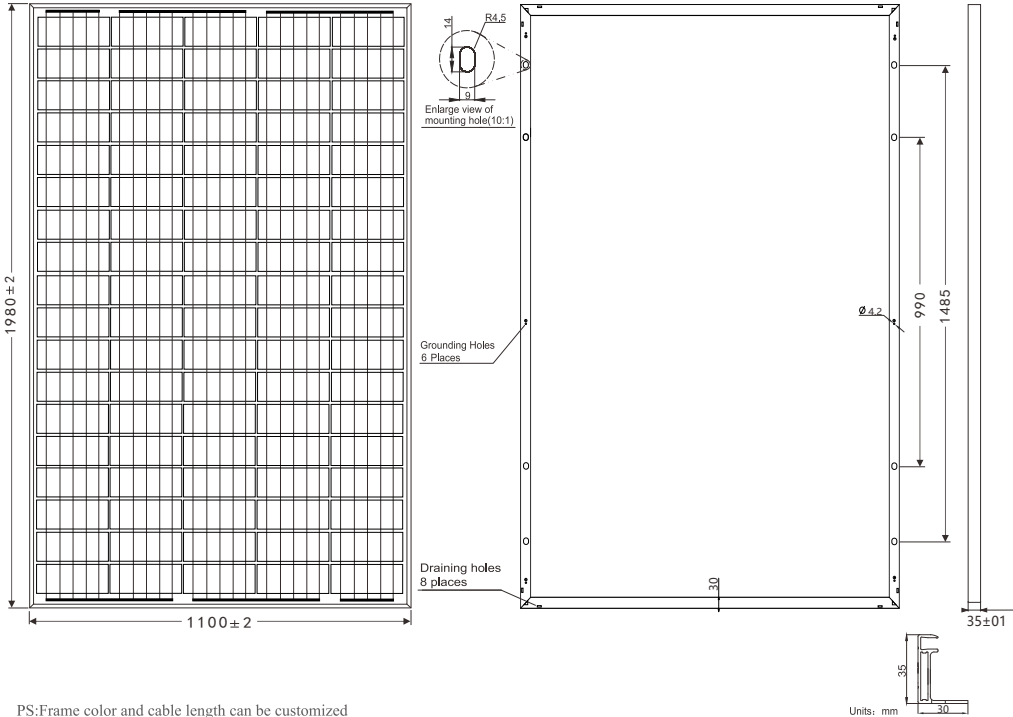
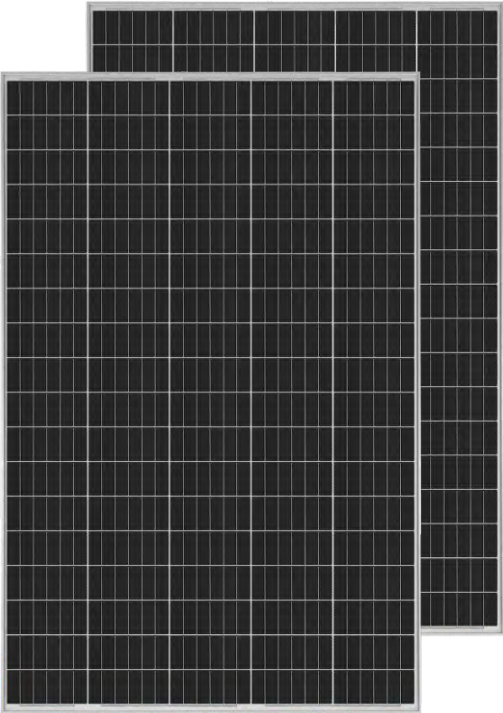
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

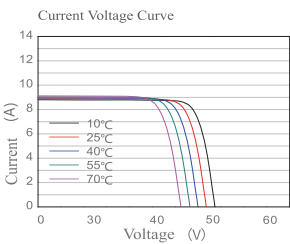
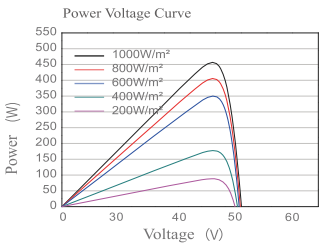
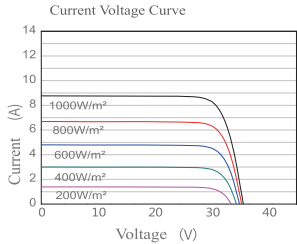
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	90Pcs(5x18)
Dimension	1980x1100x35mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/(-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M45050.94
Carton Size	1995x1155x85mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
450W	20.66%	50.94	8.83	61.56	9.35	± 3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



- STC: Light intensity 1000W/m² Battery temperature: 25°C atmosphere quality=15
- NOCT: Light intensity 800W/m² Battery temperature: 20°C atmosphere quality=15 wind velocity 1m/s

QN-210M40045.28

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

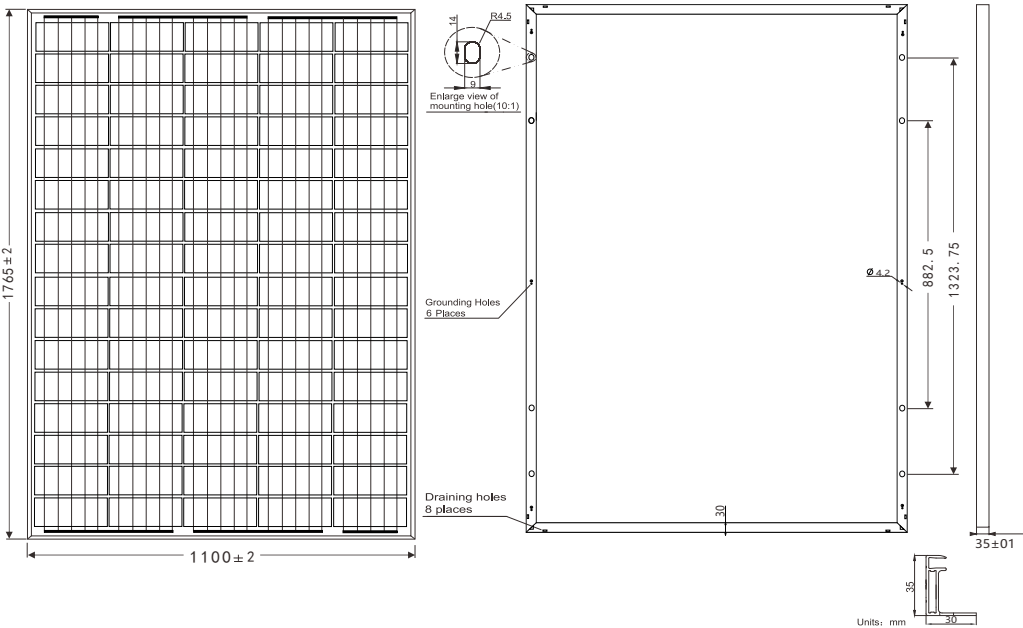
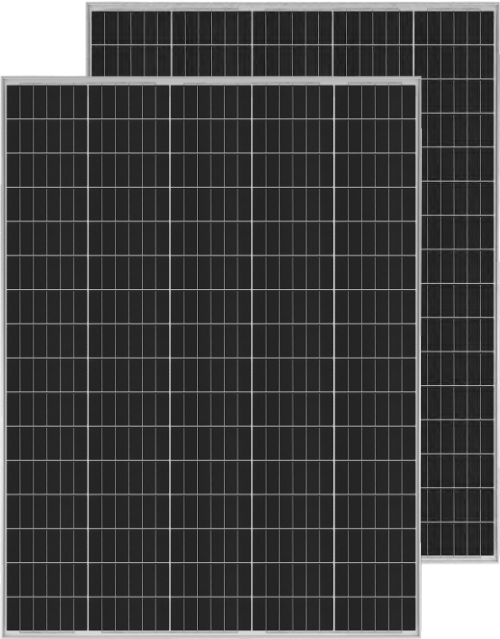
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

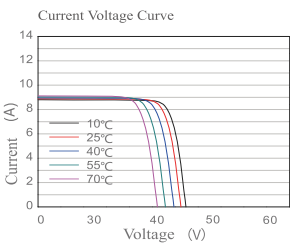
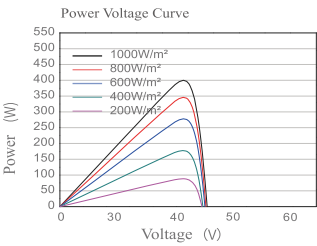
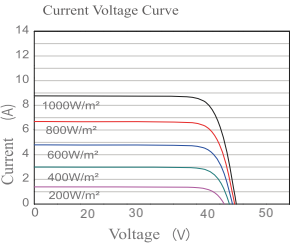
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	80Pcs(5x16)
Dimension	1765x1100x35mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/ (-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M40045.28
Carton Size	1780x1115x85mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
400W	20.60%	45.28	8.83	54.72	9.35	± 3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



- STC:

Light intensity1000W/m₂

Battery temperature:25°C

atmosphere quality=15
- NOCT:

Light intensity 800W/m₂

Battery temperature:20°C

atmosphere quality=15

wind velocity 1m/s

QN-210M32036.2

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

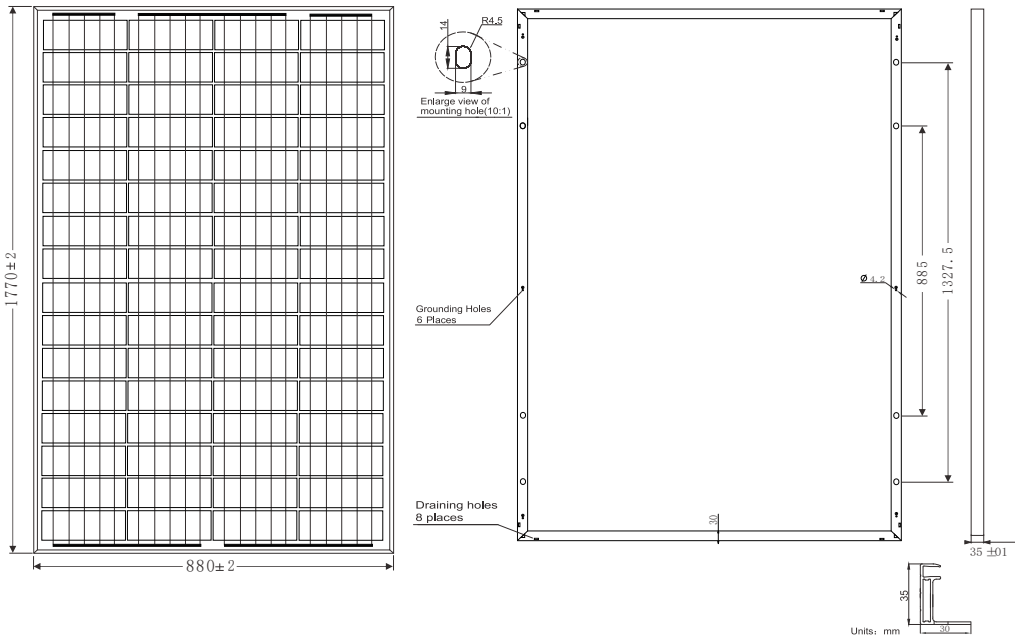
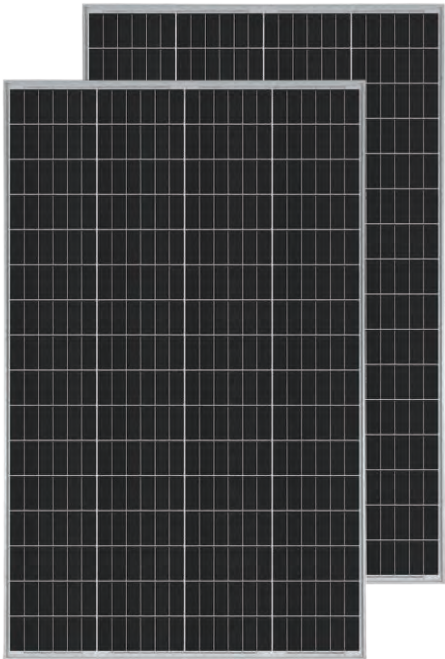
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

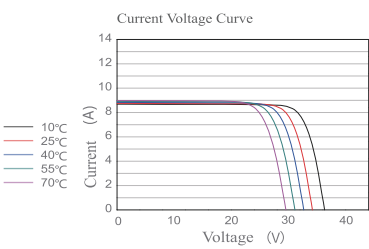
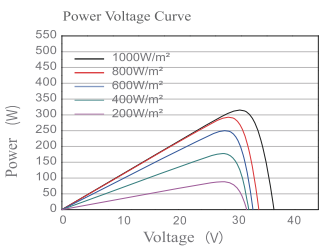
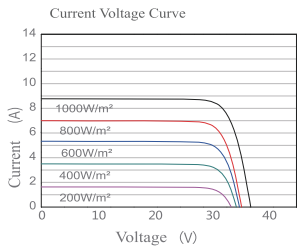
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	64Pcs(4x16)
Dimension	1770x880x35mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/(-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M32036.2
Carton Size	1785x885x85mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
320W	20.54%	36.20	8.83	43.77	9.35	± 3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



- STC:

Light intensity1000W/m₂

Battery temperature:25°C

atmosphere quality=15
- NOCT:

Light intensity 800W/m₂

Battery temperature:20°C

atmosphere quality=15

wind velocity 1m/s

QN-210M32036.2

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

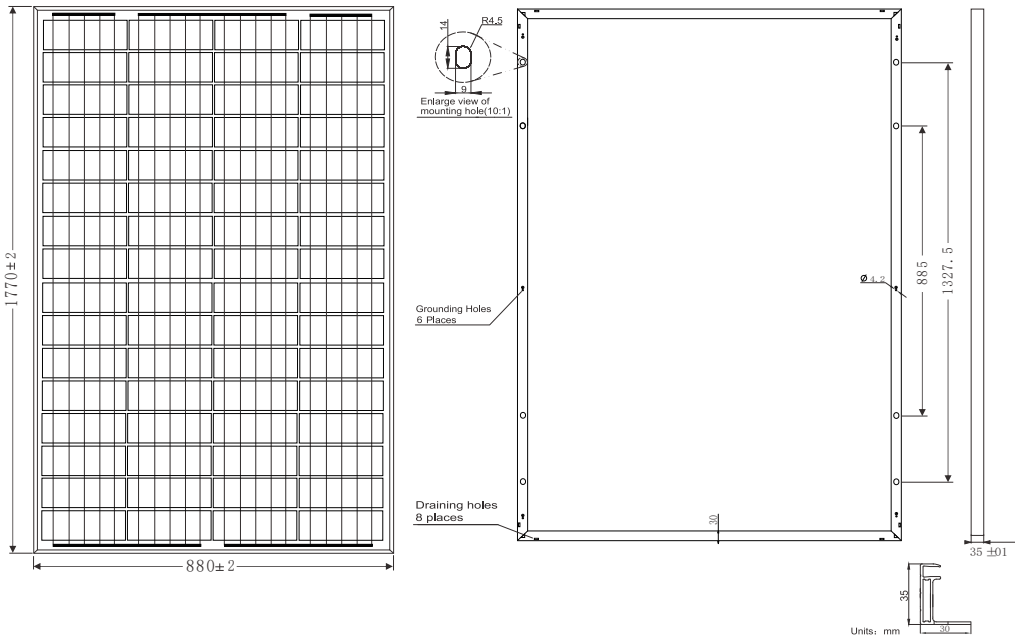
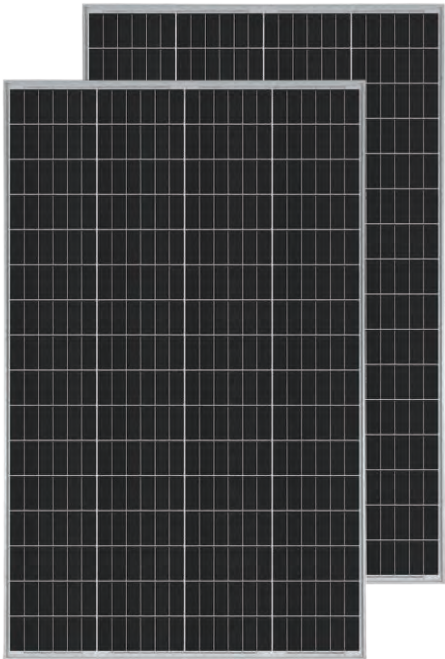
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

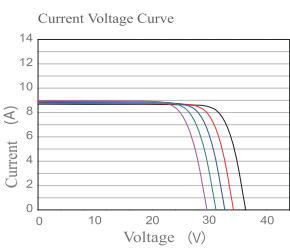
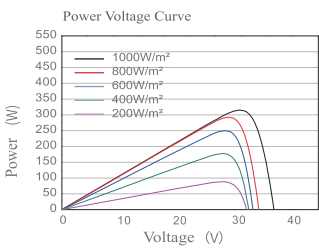
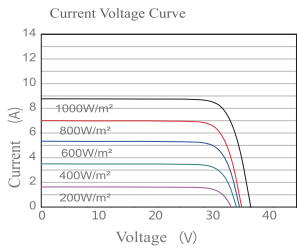
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	64Pcs(4x16)
Dimension	1770x880x35mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/(-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M32036.2
Carton Size	1785x885x85mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
320W	20.54%	36.20	8.83	43.77	9.35	± 3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



- STC:

Light intensity1000W/m₂

Battery temperature:25°C

atmosphere quality=15
- NOCT:

Light intensity 800W/m₂

Battery temperature:20°C

atmosphere quality=15

wind velocity 1m/s

QN-210M28031.7

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

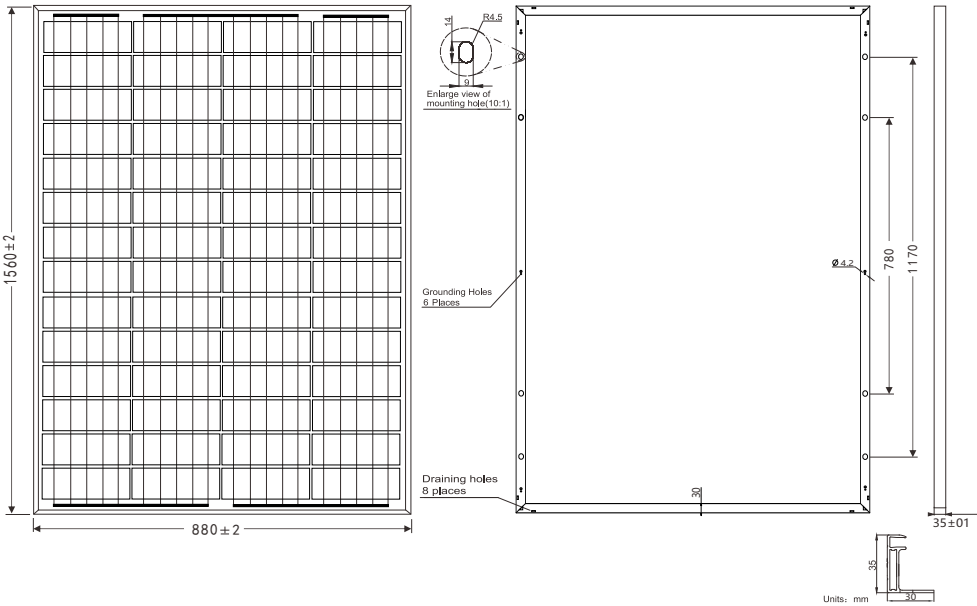
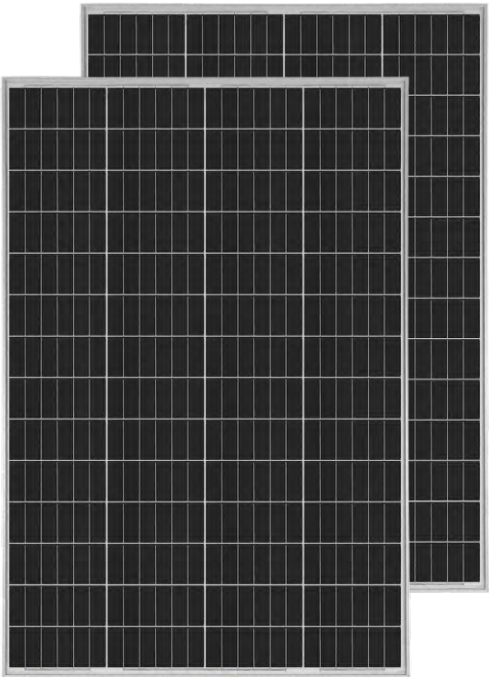
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

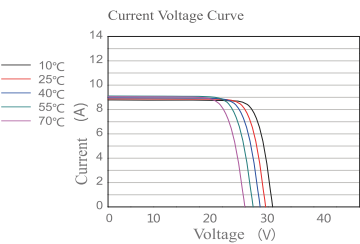
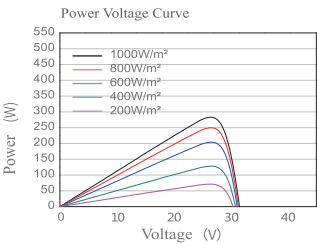
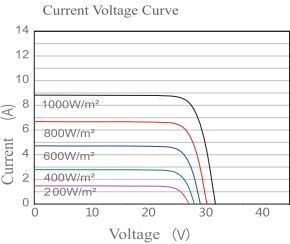
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	56Pcs(4x14)
Dimension	1560x880x35mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/ (-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M28031.7
Carton Size	1575x895x85mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
280W	20.39%	31.70	8.83	38.30	9.35	± 3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



- STC: Light intensity 1000W/m₂ Battery temperature: 25°C atmosphere quality=15
- NOCT: Light intensity 800W/m₂ Battery temperature: 20°C atmosphere quality=15 wind velocity 1m/s

QN-210M24020.38

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

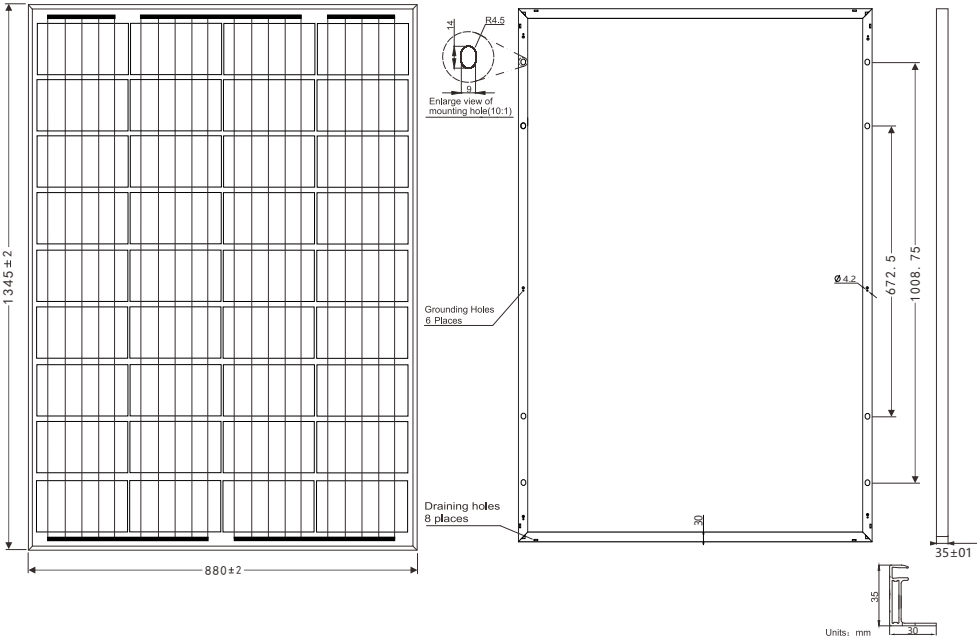
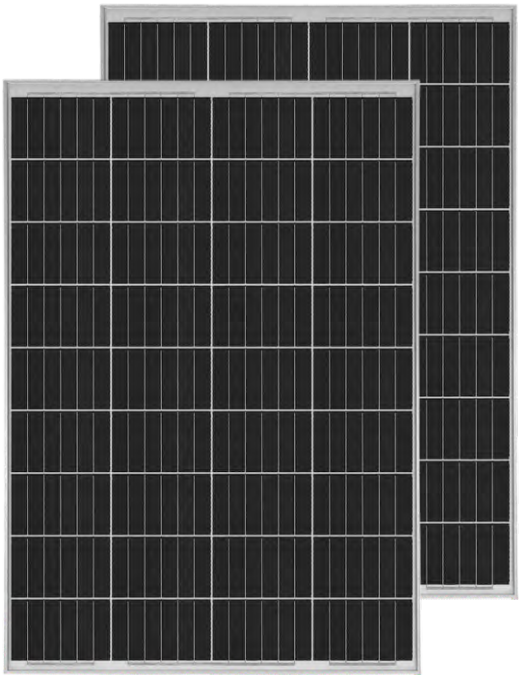
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

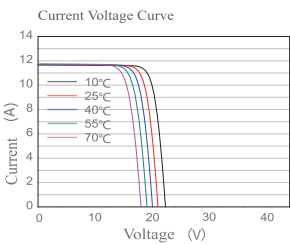
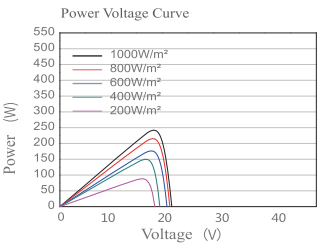
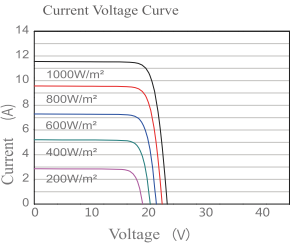
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	36Pcs(4x9)
Dimension	1345x880x35mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/(-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M24020.38
Carton Size	1360x895x85mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
240W	20.27%	20.38	11.77	24.62	12.47	±3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



STC: Light intensity 1000W/m₂ Battery temperature: 25°C atmosphere quality=15

NOCT: Light intensity 800W/m₂ Battery temperature: 20°C atmosphere quality=15 wind velocity 1m/s

QN-210M20022

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

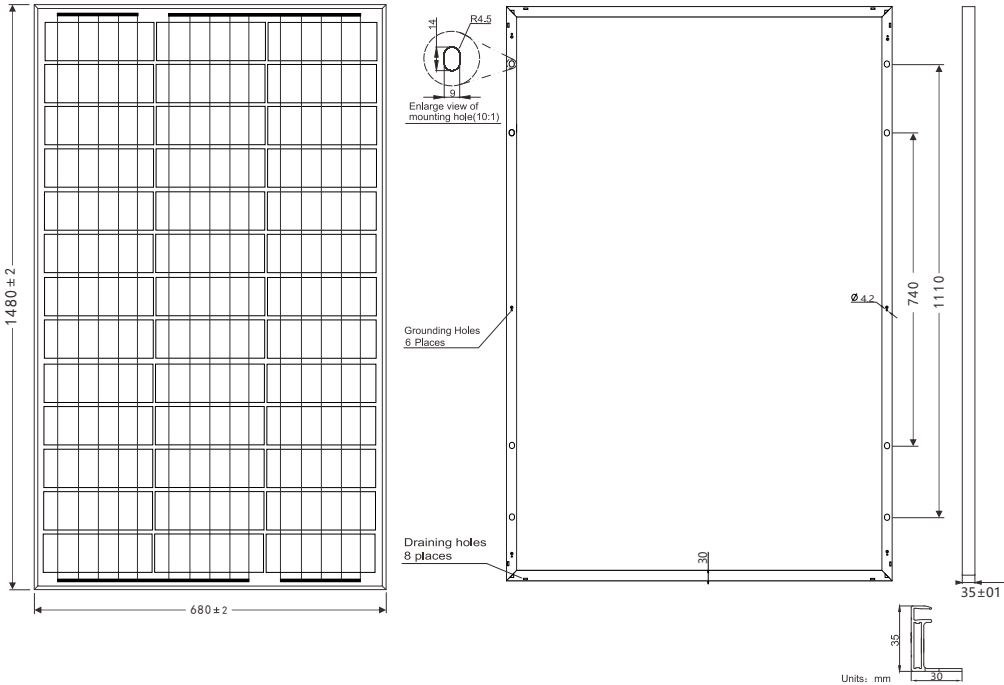
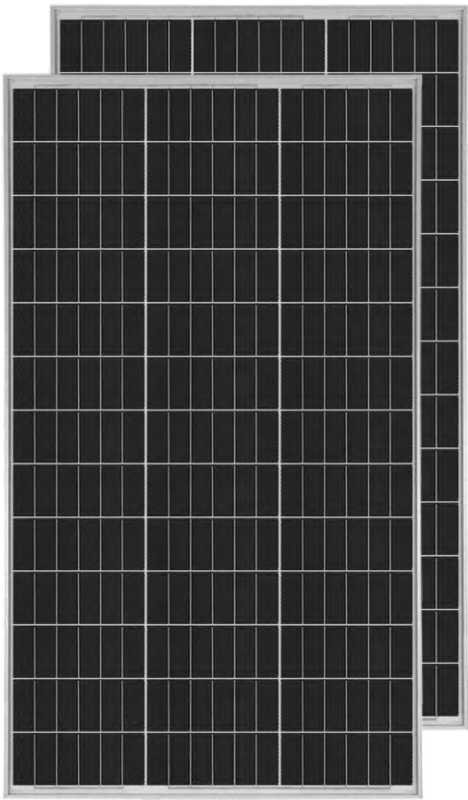
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

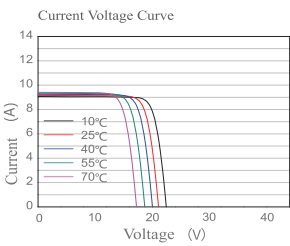
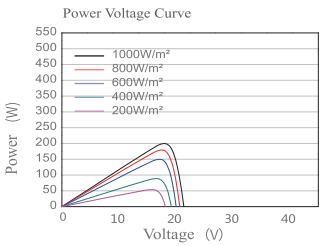
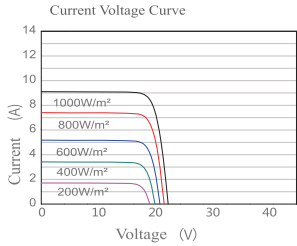
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	39Pcs(3x13)
Dimension	1480x680x35mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/ (-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M20022
Carton Size	1495x695x85mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
200W	19. 87%	22	9.09	26.67	9.36	± 3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



- STC:

Light intensity1000W/m₂

Battery temperature:25°C

atmosphere quality=15
- NOCT:

Light intensity 800W/m₂

Battery temperature:20°C

atmosphere quality=15

wind velocity 1m/s

QN-210M16018.68

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

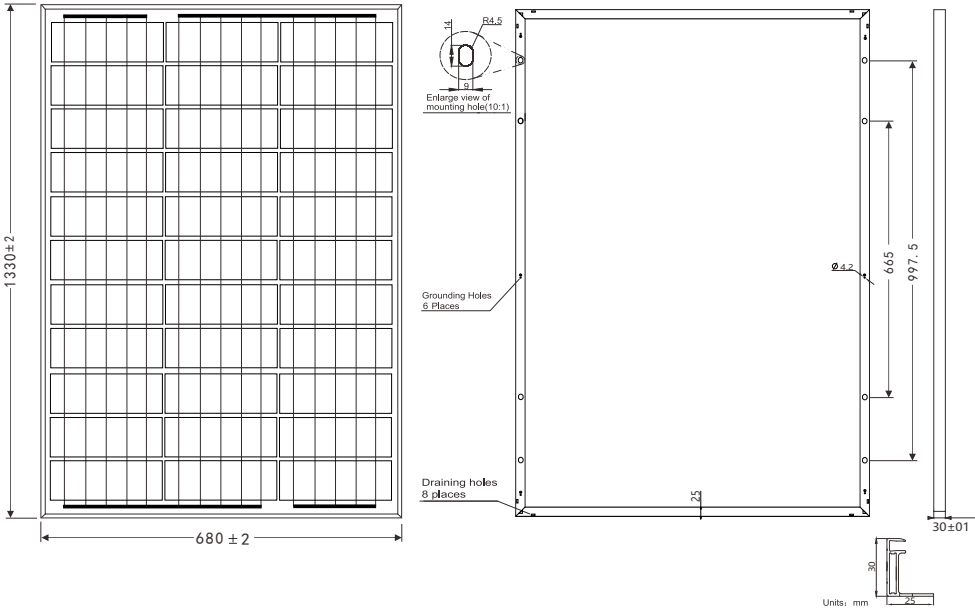
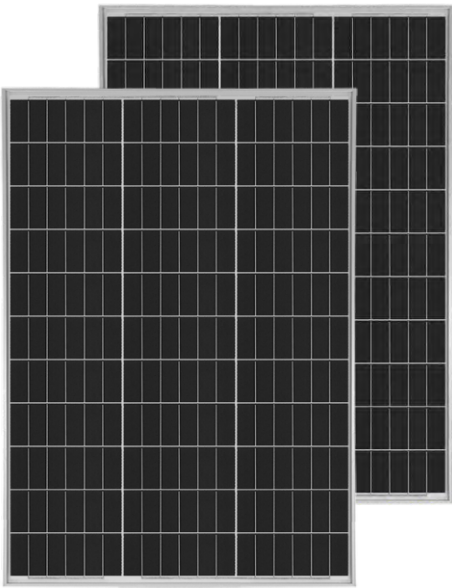
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

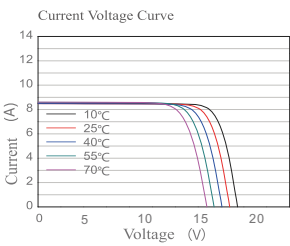
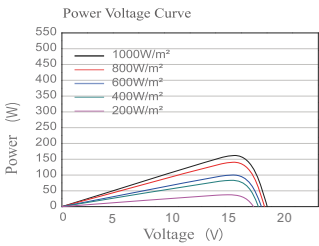
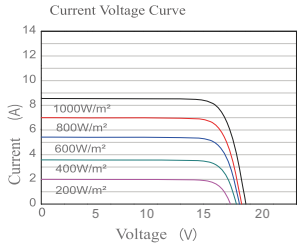
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	33Pcs(3x11)
Dimension	1330x680x30mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm²、 (+) 1000mm/ (-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M16018.68
Carton Size	1345x695x75mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
160W	17.69%	18.68	8.56	22.57	9.07	±3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



- STC: Light intensity 1000W/m₂ Battery temperature: 25°C atmosphere quality=15
- NOCT: Light intensity 800W/m₂ Battery temperature: 20°C atmosphere quality=15 wind velocity 1m/s

QN-210M12020.38

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

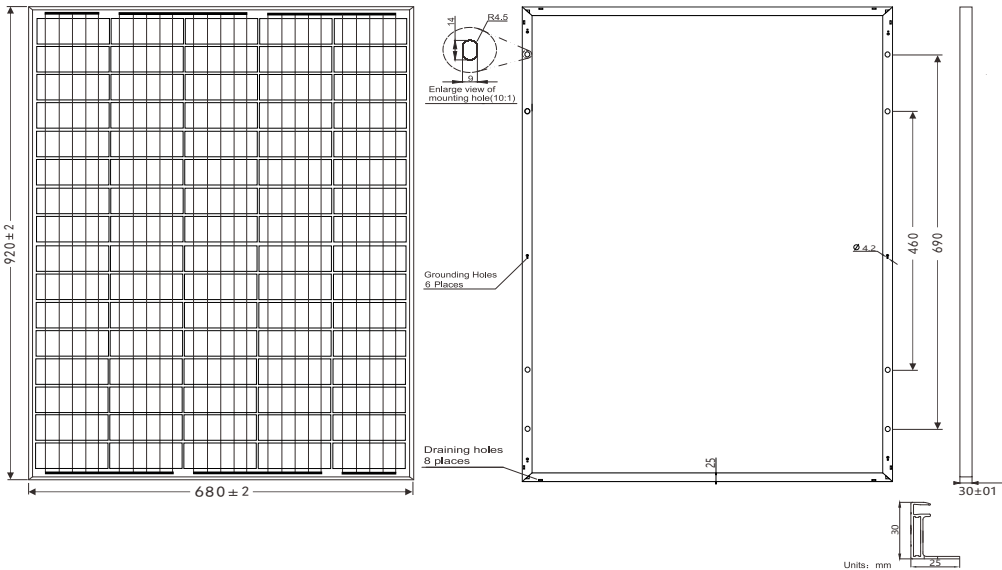
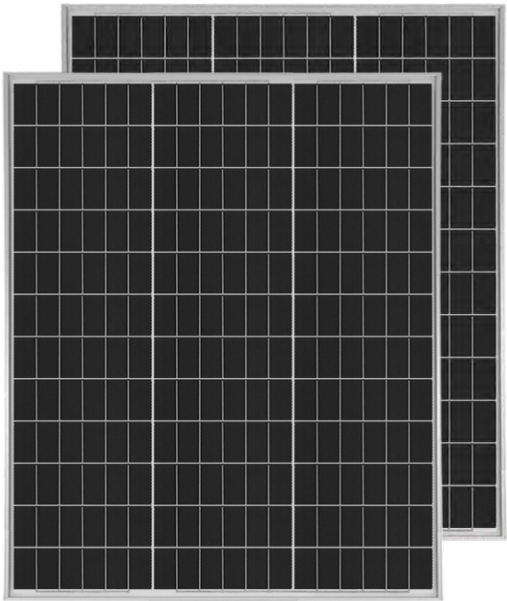
- ↓9%

Saving labor cost
- ↓7%

Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



PS:Frame color and cable length can be customized

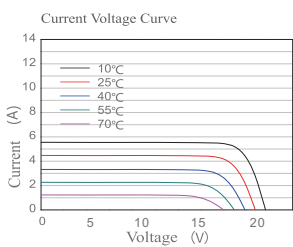
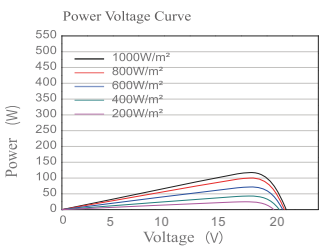
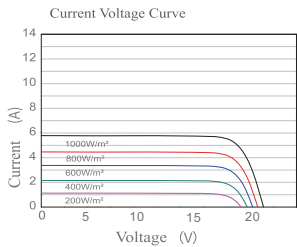
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	36Pcs(3x12)
Dimension	920x680x30mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/(-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M12020.38
Carton Size	935x695x75mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
120W	19.18%	20.38	5.88	24.62	6.23	±3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



STC: Light intensity 1000W/m₂ Battery temperature: 25°C atmosphere quality=15

NOCT: Light intensity 800W/m₂ Battery temperature: 20°C atmosphere quality=15 wind velocity 1m/s

QN-210M10020.38

INTRODUCTION

qnhalf-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

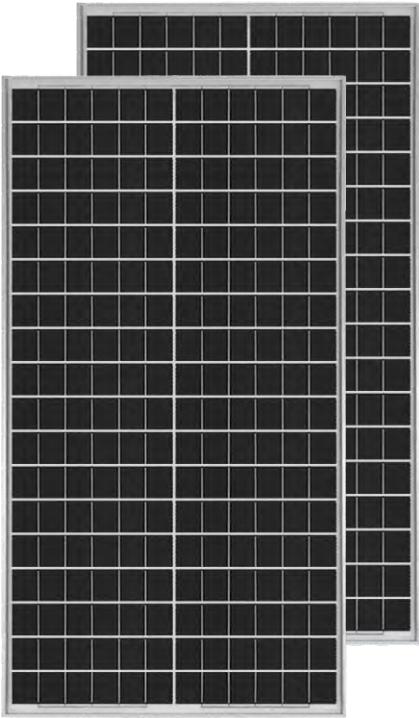
- ↓9%

Saving labor cost
- ↓7%

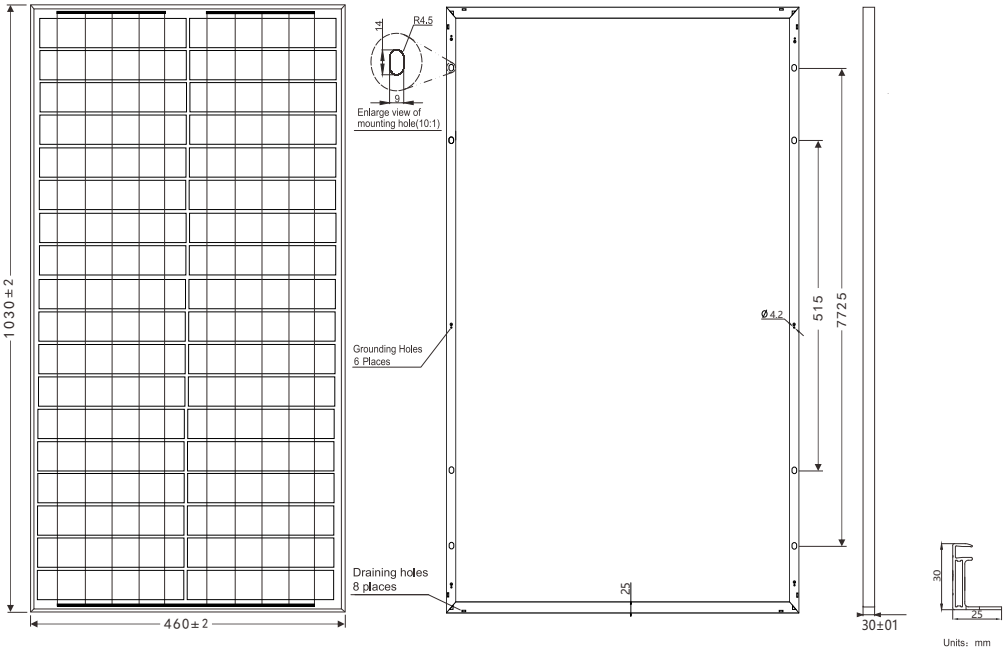
Saving cable cost
- ↓8%

Saving bracket cost
- ↓6%

Saving logistics cost



Mechanical Diagrams



PS:Frame color and cable length can be customized

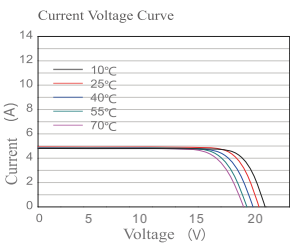
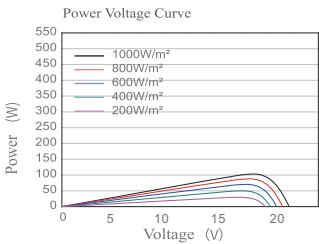
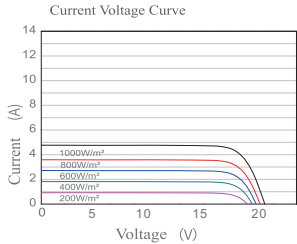
Mechanical Parameters	
Solar Cell(Type/Size)	MONO(210mm)
Solar Cells Number	36Pcs(2x18)
Dimension	1030x460x30mm
Weight	Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67、3*bypass diode
Cable	4.0mm ² , (+) 1000mm/ (-) 1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	QN-210M10020.38
Carton Size	1045x475x75mm
Number	2Pcs/Ctn
Weight	Kg/Ctn
Volume	Cbm/Ctn
20GP Container	Pcs
40HQ Container	Pcs

Electrical Parameters at (STC)

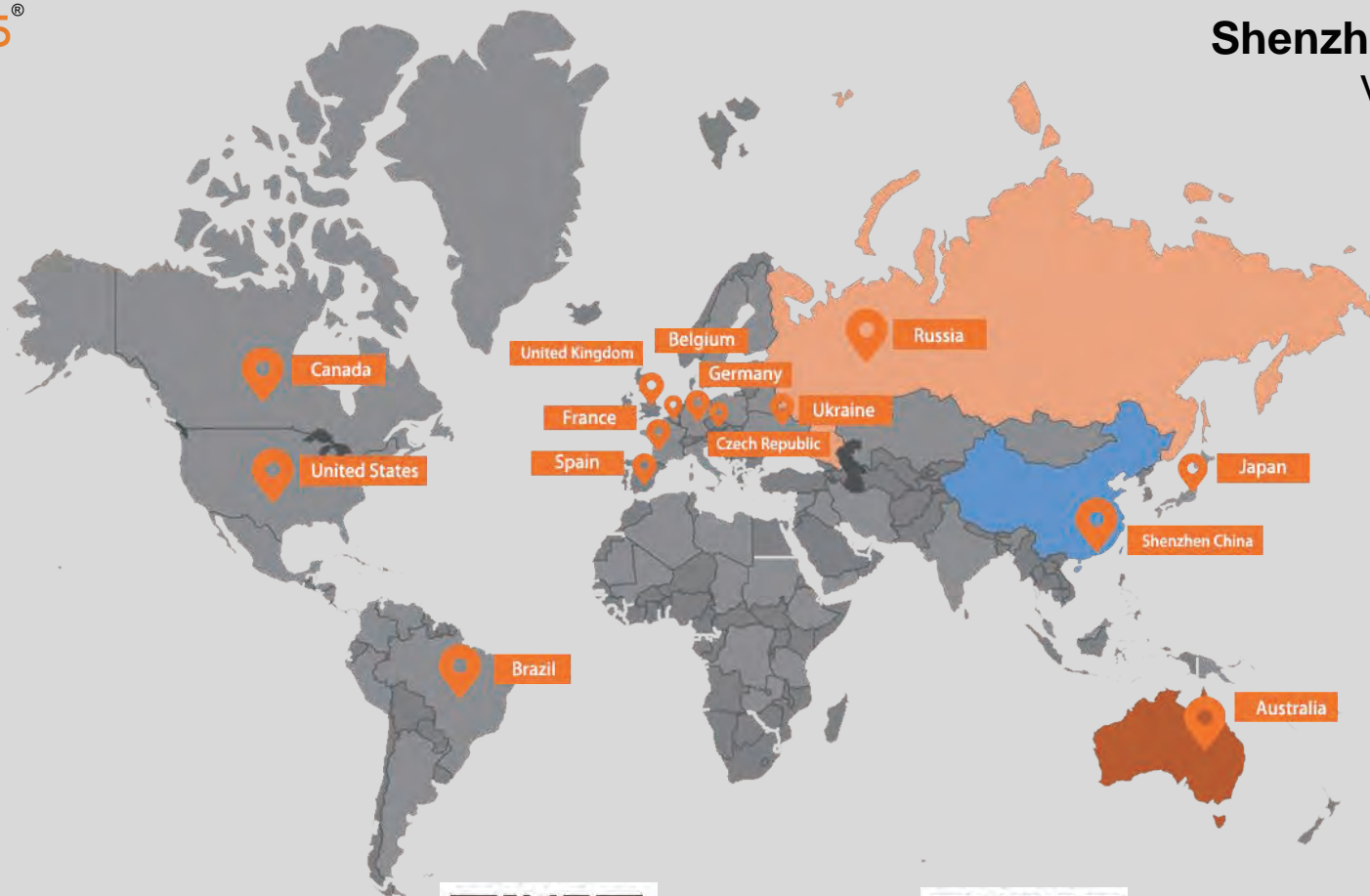
Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
100W	21. 1%	20.38	4. 90	24.62	5.94	± 3%

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



STC: Light intensity 1000W/m₂ Battery temperature: 25°C atmosphere quality=15

NOCT: Light intensity 800W/m₂ Battery temperature: 20°C atmosphere quality=15 wind velocity 1m/s



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