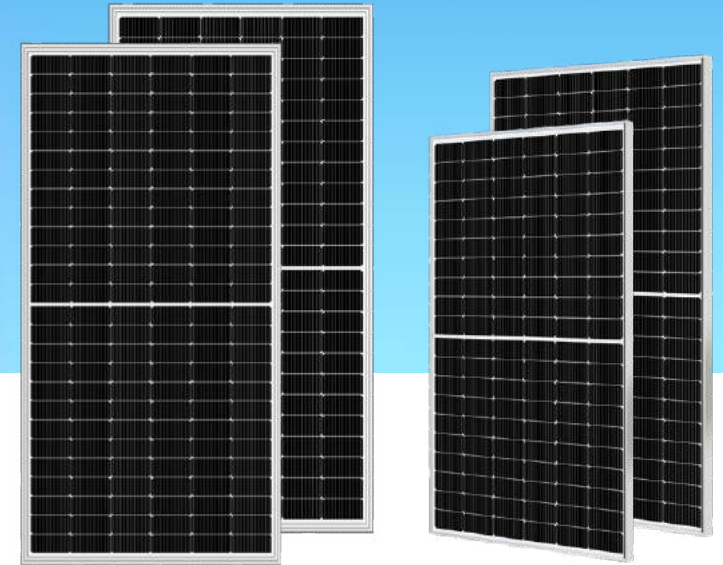




QN450-600W

Mono Half-cut Single/Module 450-600/MB



Solar module features



Multi Busbar Technology

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



Higher output power

Module output power increased to 505W.



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

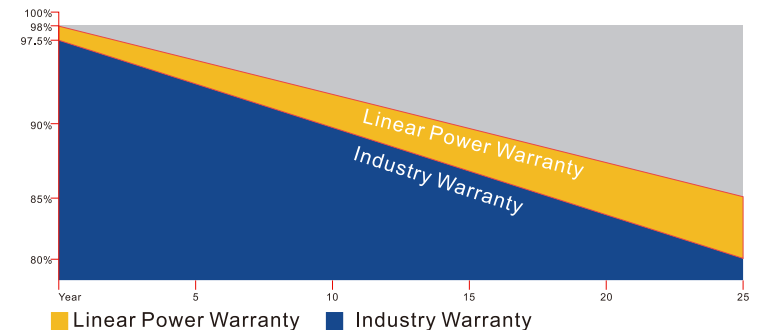


Adaptability to harsh environments

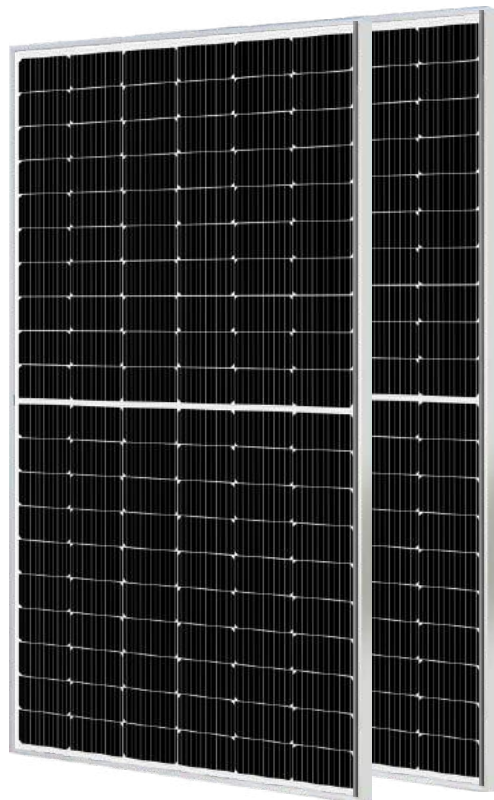
High performance materials are suitable for coastal, farm, desert and other harsh environmental conditions, glass surface is anti-reflective and easy to clean, minimizing power generation losses caused by dirt and dust.

First-class Quality Assurance

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



Module Picture



QN-182M45034

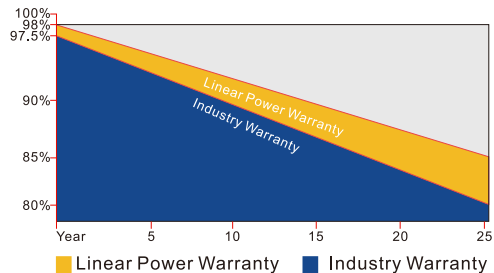
Mono Half-cut Single/ Module 430-455/MB

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

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

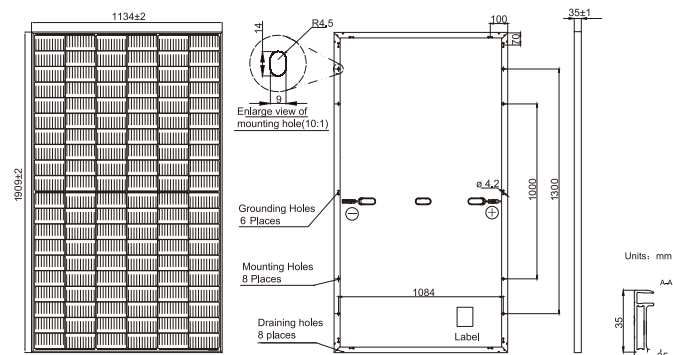


Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



PS: Frame color and cable length can be customized

Electrical Parameters at STC

Module Type	QN430M	QN435M	QN440M	QN445M	QN450M	QN455M
Rate Maximum Power(Pmax/W)	430	435	440	445	450	455
Module Efficiency(%)	19.90	20.10	20.30	20.60	20.80	21.10
Open Circuit Volatge(Voc/V)	40.65	40.80	40.95	41.10	41.25	41.40
Short Circuit Current(Isc/A)	13.59	13.67	13.74	13.82	13.89	13.97
Voltage at Pmax(Vmp/V)	33.89	30.09	34.28	34.48	34.67	34.87
Current at Pmax(Imp/A)	12.69	12.77	12.84	12.91	12.98	13.05
Power Tolerance	0~+5w					
Temperature Coefficient of Isc	+0.046%/°C					
Temperature Coefficient of Voc	-0.276%/°C					
Temperature Coefficient of Pmax	-0.350%/°C					
STC	Irradiance 1000W/m ² Cell Temperature 25°C AM1.5					

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

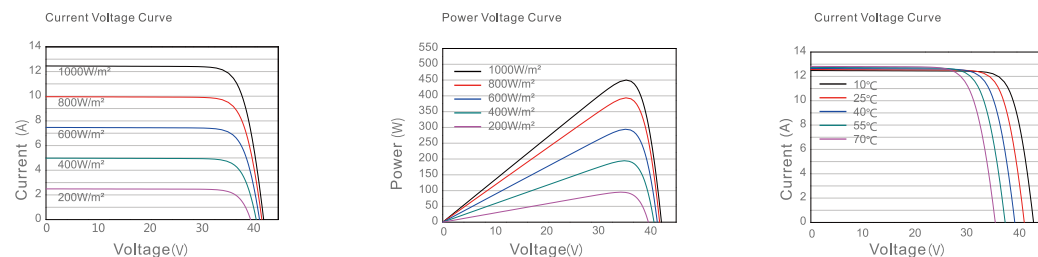
Electrical Parameters at NOCT

Module Type	QN430M	QN435M	QN440M	QN445M	QN450M	QN455M
Rate Maximum Power(Pmax/W)	327	330	333	336	340	343
Open Circuit Voltage(Voc.V)	38.15	38.28	38.40	38.53	38.65	38.77
Short Circuit Current(Isc/A)	10.91	10.95	10.99	11.03	11.08	11.12
Voltage at Pmax(Vmp/V)	31.89	32.05	32.19	32.35	32.51	32.67
Current at Pmax(Imp/A)	10.26	10.30	10.35	10.40	10.46	10.51
NOCT: Irradiance 800W/m ² Ambient Temperature 20°C Wind at 1m/S AM1.5						

Operating Conditions

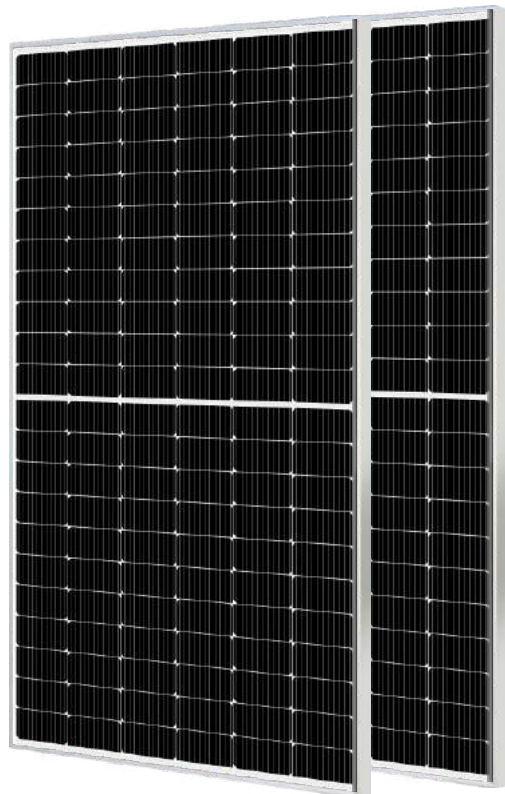
Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

Characteristics



Specifications

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	120pcs(6*10)
Dimensions	1909×1134×35mm
Weight	23.9Kg/Pcs
Structure	3.2 Glass + EVA film + Back
Frame	Anodized Aluminum Alloy
Junction Box	IP68 · 3*Bypass Diode
Cable Cross Section Size	4.0mm²,(+)300mm/(-)400mm
Mechanical Load	Front 5400Pa/Back 2400Pa
Packing Number	31Pcs/Pallet
Packing Volume	2.834Cbm/Pallet
40'HQ Container	744Pcs



QN-182M50038

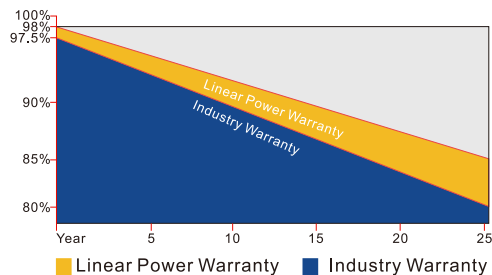
Mono Half-cut Single/ Module 480-505/MB

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

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

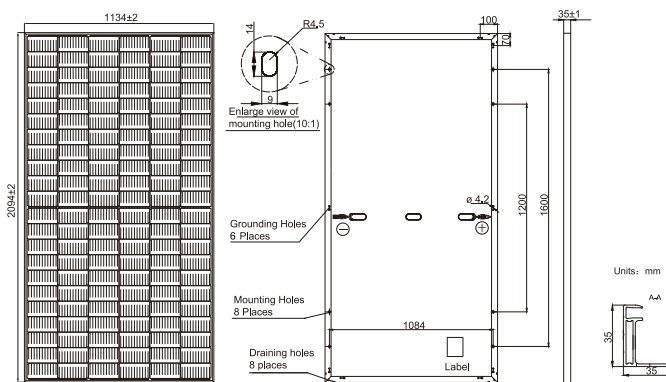


Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



PS: Frame color and cable length can be customized

Electrical Parameters at STC

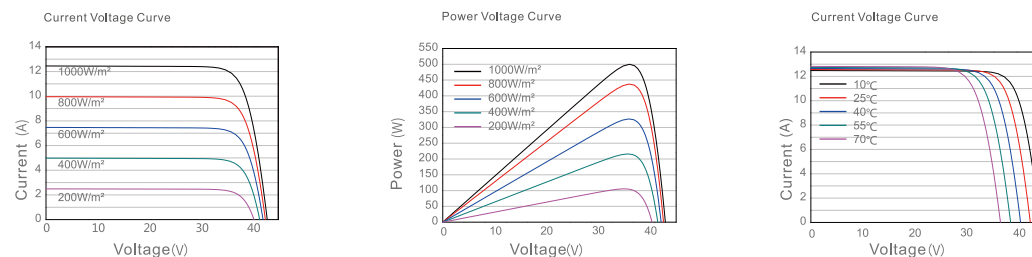
Module Type	QN480M	QN485M	QN490M	QN495M	QN500M	QN505M
Rate Maximum Power(Pmax/W)	480	485	490	495	500	505
Module Efficiency(%)	20.20	20.40	20.60	20.80	21.10	21.30
Open Circuit Volatge(Voc/V)	45.02	45.18	45.33	45.49	45.65	45.79
Short Circuit Current(Isc/A)	13.66	13.73	13.79	13.86	13.92	13.99
Voltage at Pmax(Vmp/V)	37.71	37.87	38.02	38.18	38.33	38.50
Current at Pmax(Imp/A)	12.73	12.81	12.89	12.97	13.05	13.12
Power Tolerance	0~+5w					
Temperature Coefficient of Isc	+0.046%/°C					
Temperature Coefficient of Voc	-0.276%/°C					
Temperature Coefficient of Pmax	-0.350%/°C					
STC	Irradiance 1000W/m ² Cell Temperature 25°C AM1.5					

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

Electrical Parameters at NOCT

Module Type	QN480M	QN485M	QN490M	QN495M	QN500M	QN505M	Operating Conditions
Rate Maximum Power(Pmax/W)	363	366	370	373	377	381	Operating Temperature -40~+85°C
Open Circuit Voltage(Voc/V)	42.16	42.31	42.46	42.60	42.75	42.89	Maximum System Voltage 1500VDC
Short Circuit Current(Isc/A)	10.98	11.06	11.12	11.19	11.26	11.33	NOCT 45±2°C
Voltage at Pmax(Vmp/V)	35.48	35.61	35.73	35.86	35.99	36.11	Fireproof Performance Glass C
Current at Pmax(Imp/A)	10.23	10.28	10.36	10.41	10.48	10.56	Maximum Series Fuse 25A
NOCT: Irradiance 800W/m ² Ambient Temperature 20°C Wind at 1m/S AM1.5							Temperature Coefficient of Voc -0.276%/K
							Temperature Coefficient of Isc +0.046%/K

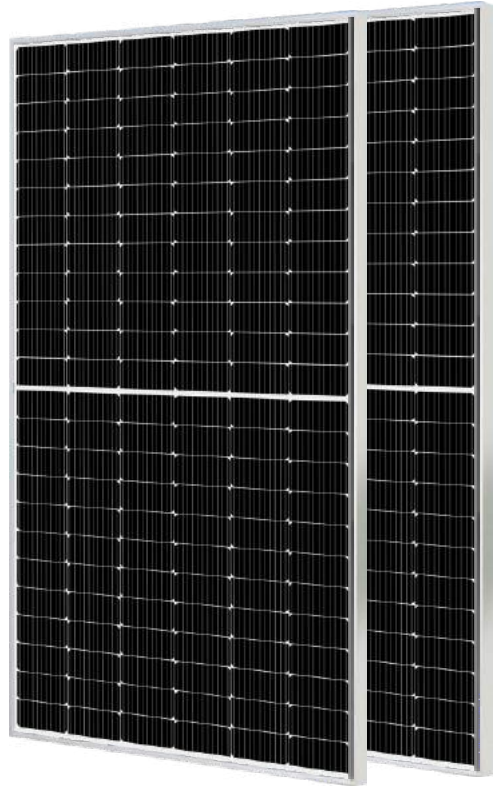
Characteristics



Specifications

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	132pcs(6*22)
Dimensions	2094×1134×35mm
Weight	26.2Kg/Pcs
Structure	3.2 Glass + EVA film + Back
Frame	Anodized Aluminum Alloy
Junction Box	IP68 · 3*Bypass Diode
Cable Cross Section Size	4.0mm ² (+)300mm/(-)400mm
Mechanical Load	Front 5400Pa/Back 2400Pa
Packing Number	31Pcs/Pallet
Packing Volume	3.100Cbm/Pallet
40'HQ Container	682Pcs

Module Picture



QN-182M54041

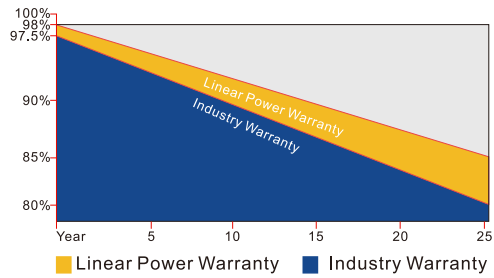
Mono Half-cut Single/ Module 525-550/MB

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

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

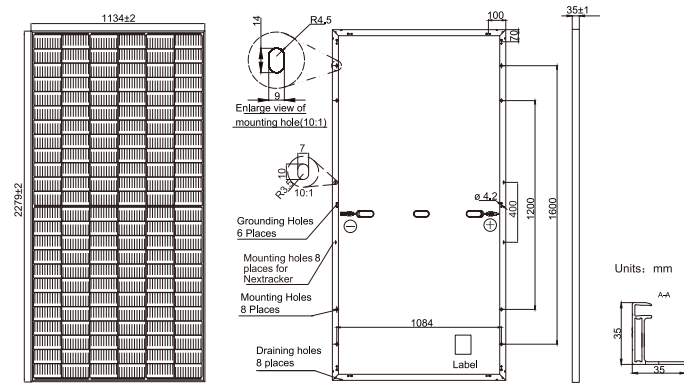


Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



PS: Frame color and cable length can be customized

Specifications

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	144pcs(6*24)
Dimensions	2279×1134×35mm
Weight	28.5Kg/Pcs
Structure	3.2 Glass + EVA film + Back
Frame	Anodized Aluminum Alloy
Junction Box	IP68 · 3*Bypass Diode
Cable Cross Section Size	4.0mm²,(+)300mm/(-)400mm
Mechanical Load	Front 5400Pa/Back 2400Pa
Packing Number	31Pcs/Pallet
Packing Volume	3.372Cbm/Pallet
40'HQ Container	620Pcs

Electrical Parameters at STC

Module Type	QN525M	QN530M	QN535M	QN540M	QN545M	QN550M
Rate Maximum Power(Pmax/W)	525	530	535	540	545	550
Module Efficiency(%)	20.30	20.50	20.70	20.90	21.10	21.30
Open Circuit Volatge(Voc/V)	48.95	49.15	49.35	49.55	49.75	49.95
Short Circuit Current(Isc/A)	13.67	13.74	13.82	13.89	13.97	14.05
Voltage at Pmax(Vmp/V)	41.10	41.27	41.45	41.62	41.80	41.97
Current at Pmax(Imp/A)	12.78	12.85	12.91	12.98	13.05	13.11
Power Tolerance	0~+5w					
Temperature Coefficient of Isc	+0.046%/°C					
Temperature Coefficient of Voc	-0.276%/°C					
Temperature Coefficient of Pmax	-0.350%/°C					
STC	Irradiance 1000W/m² Cell Temperature 25°C AM1.5					

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

Electrical Parameters at NOCT

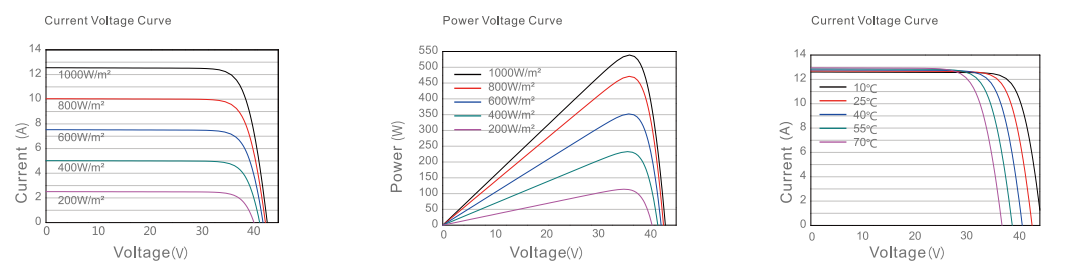
Module Type	QN525M	QN530M	QN535M	QN540M	QN545M	QN550M
Rate Maximum Power(Pmax/W)	396	400	404	407	411	414
Open Circuit Voltage(Voc/V)	46.00	46.13	46.26	46.38	46.50	46.63
Short Circuit Current(Isc/A)	10.95	10.99	11.03	11.08	11.12	11.17
Voltage at Pmax(Vmp/V)	38.35	38.55	38.76	38.95	39.16	39.31
Current at Pmax(Imp/A)	10.33	10.38	10.43	10.46	10.50	10.53

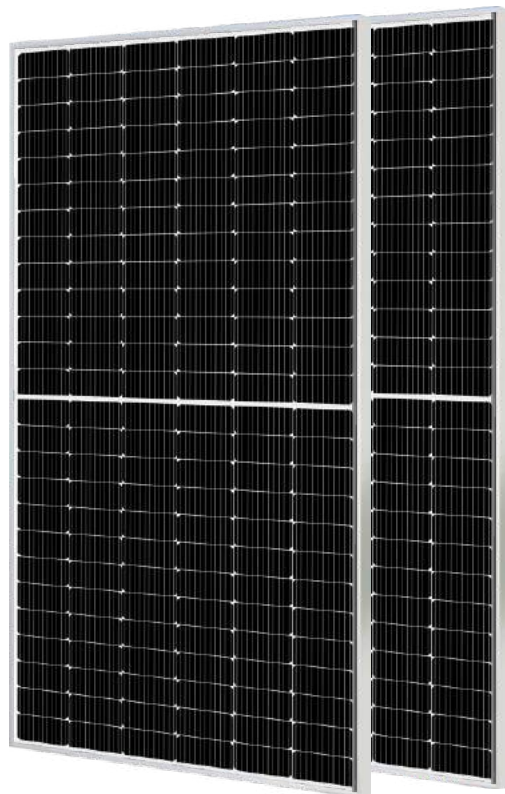
NOCT: Irradiance 800W/m² Ambient Temperature 20°C Wind at 1m/S AM1.5

Operating Conditions

Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

Characteristics





QN-182M60045

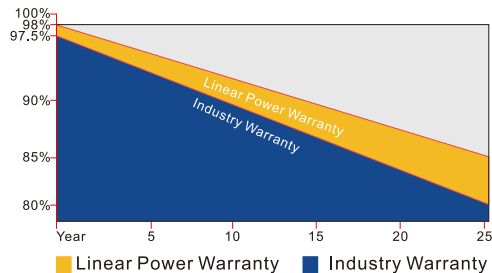
Mono Half-cut Single/ Module 580-600/MB

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

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

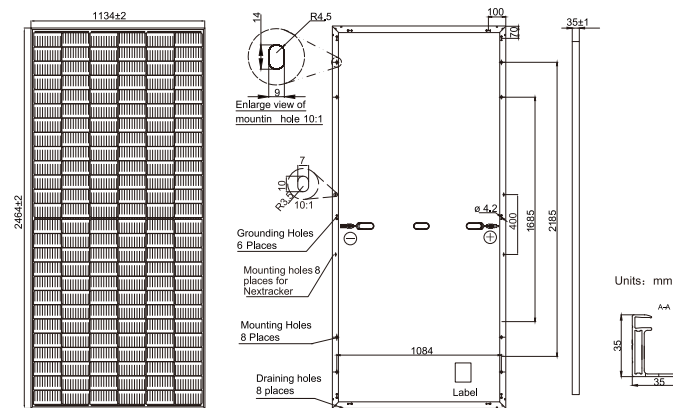


Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



PS: Frame color and cable length can be customized

Electrical Parameters at STC

Module Type	QN580M	QN585M	QN590M	QN595M	QN600M
Rate Maximum Power(Pmax/W)	580	585	590	595	600
Module Efficiency(%)	20.70	20.90	20.10	21.30	21.50
Open Circuit Voltage(Voc/V)	53.50	53.65	53.80	53.95	54.10
Short Circuit Current(Isc/A)	13.82	13.89	13.96	14.03	14.10
Voltage at Pmax(Vmp/V)	44.90	45.07	45.22	45.39	45.53
Current at Pmax(Imp/A)	12.92	12.98	13.05	13.11	13.18
Power Tolerance	0~+5w				
Temperature Coefficient of Isc	+0.046%/°C				
Temperature Coefficient of Voc	-0.276%/°C				
Temperature Coefficient of Pmax	-0.350%/°C				
STC	Irradiance 1000W/m ² Cell Temperature 25°C AM1.5				

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

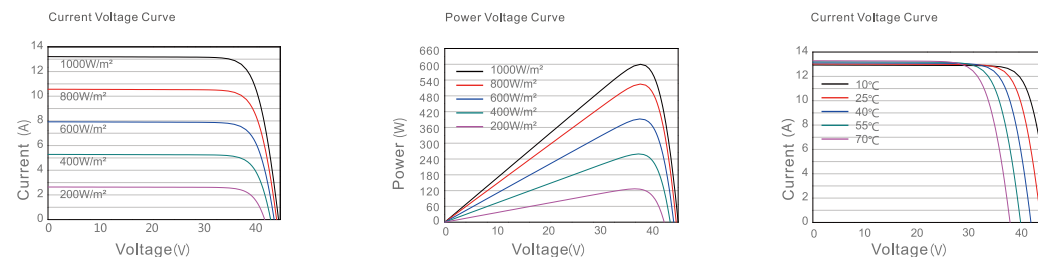
Electrical Parameters at NOCT

Module Type	QN580M	QN585M	QN590M	QN595M	QN600M
Rate Maximum Power(Pmax/W)	438	441	445	448	452
Open Circuit Voltage(Voc.V)	50.09	50.22	50.35	50.48	50.60
Short Circuit Current(Isc/A)	11.03	11.08	11.12	11.17	11.22
Voltage at Pmax(Vmp/V)	42.03	42.17	42.39	42.51	42.73
Current at Pmax(Imp/A)	10.42	10.46	10.50	10.54	10.58
NOCT: Irradiance 800W/m ² Ambient Temperature 20°C Wind at 1m/S AM1.5					

Operating Conditions

Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

Characteristics



40-450 Watt

High efficiency monocrystalline
silicon solar modules

0~+3% tolerance

Solar module features



PERC 182 cells

Better capability of current collection, larger area of power generation, nice appearance, more suitable for installation on the roof.



High output power

Using PERC battery structure technology (Low resistance characteristics), output power of 60pcs monocrystalline cells reaches Max 450W (Highest Conversion efficiency to 20.9%)



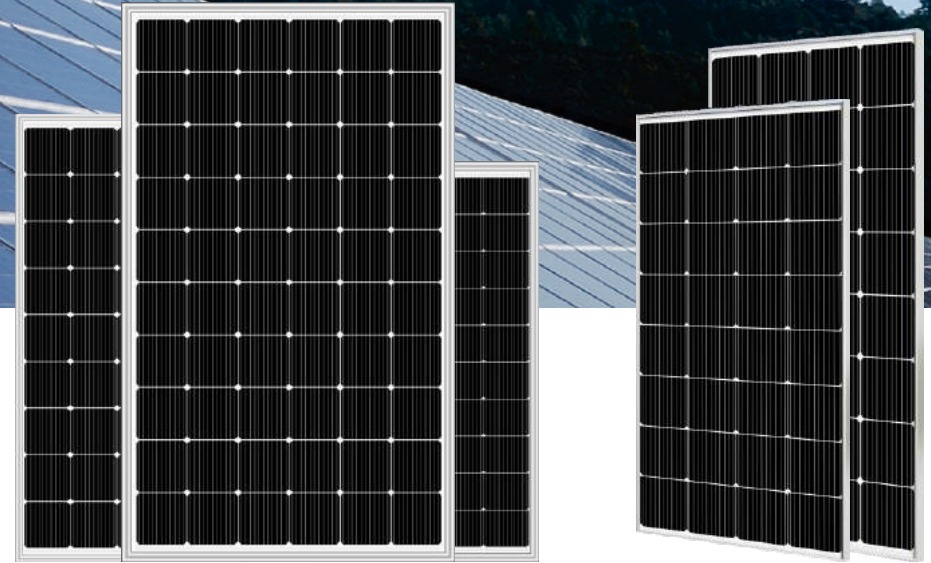
Low light performance

Using excellent glass and texture surface making of solar cell, outstanding performance can be obtained in low light condition.



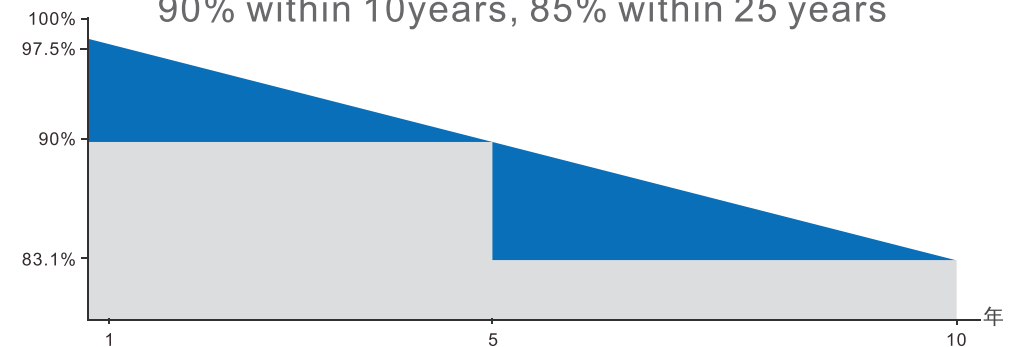
Adaptability of harsh environment

Corrosion tests have certified in high salt fog and high ammonia environment.



Guaranteed output power

90% within 10years, 85% within 25 years



Module Picture



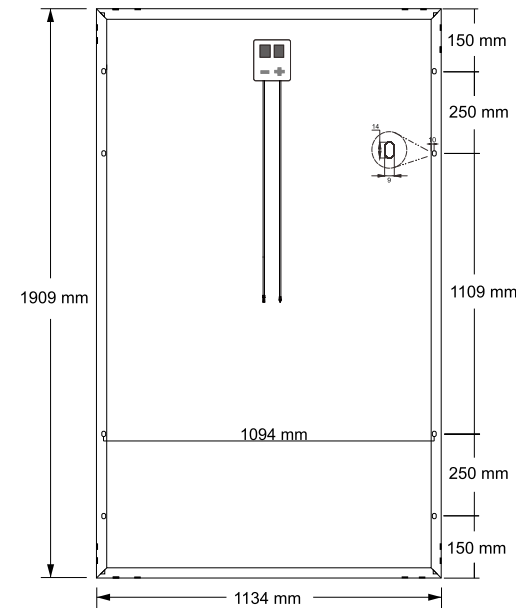
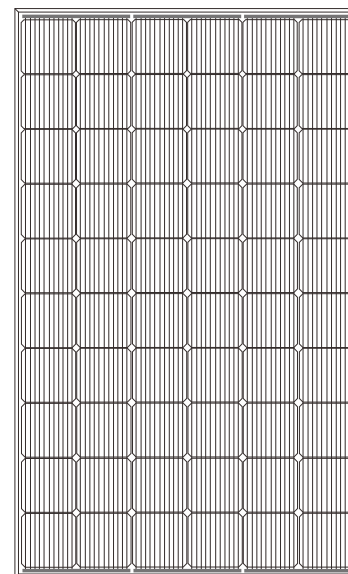
QN-182M45034

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



Units:mm/±2

PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN450M	450W	20.80%	34.20	13.16	41.04	13.95	±3%

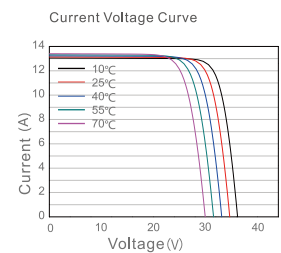
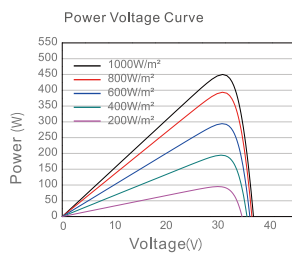
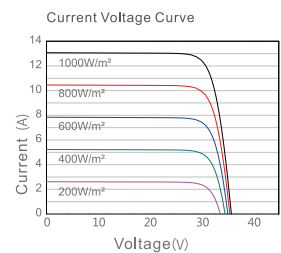
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	60Pcs(6x10)
Dimension	1909x1134x35mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*3*20AMOS diode
Cable	4.0mm ² (+)900mm/(-)900mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M45034
Carton Size	1924x1149x83mm
Number	2Pcs/Ctn
G.W	46Kg/Ctn
N.W	43.5Kg/Ctn
20GP Container	248Pcs
40HQ Container	696Pcs

Characteristics



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

Module Picture



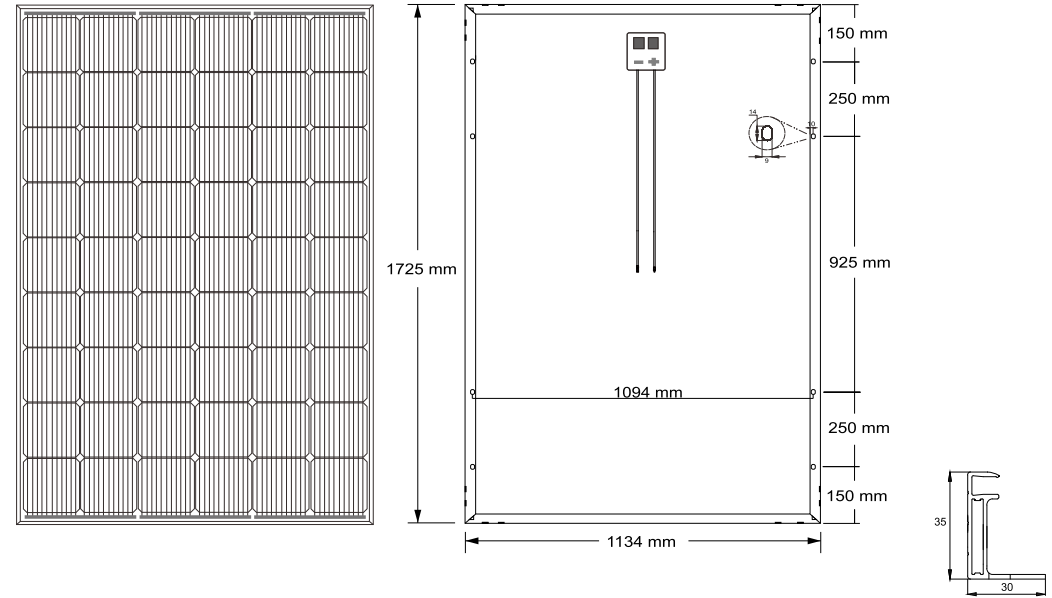
QN-182M40030

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



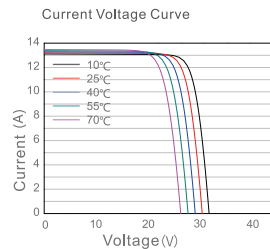
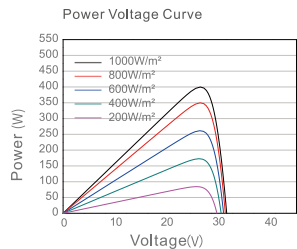
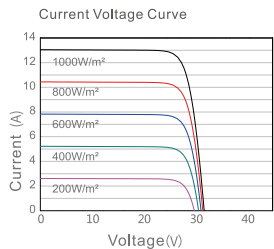
Units:mm/±2

PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN400M	400W	20.70%	30.78	13.00	37.02	13.78	±3%

Characteristics



Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	54Pcs(6x9)
Dimension	1725x1134x35mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*3*20AMOS diode
Cable	4.0mm ² (+)-900mm/(-)900mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M40030
Carton Size	1740x1149x83mm
Number	2Pcs/Ctn
G.W	43Kg/Ctn
N.W	40.8Kg/Ctn
20GP Container	264Pcs
40HQ Container	752Pcs

- 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

Module Picture



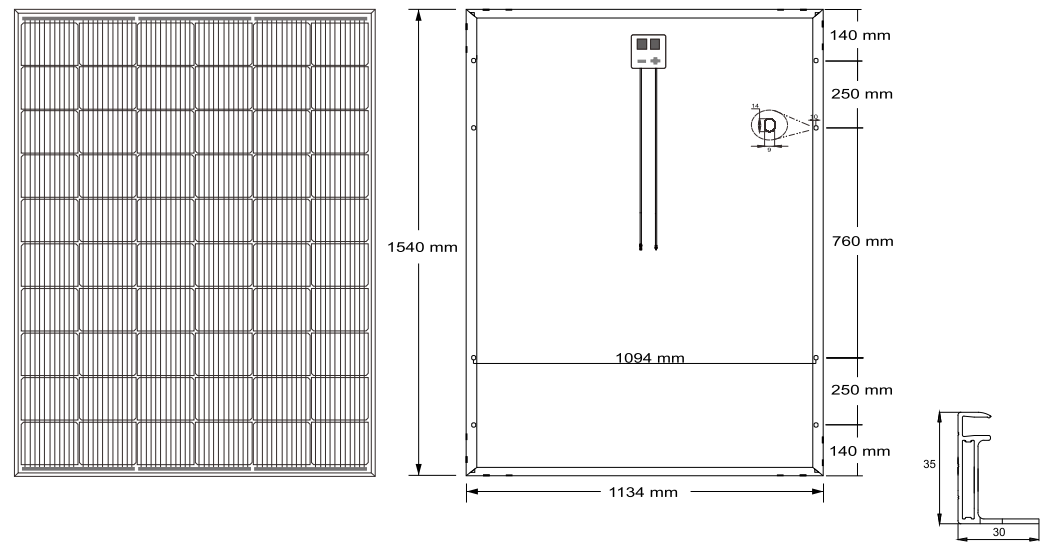
QN-182M36034

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



Units:mm/±2

PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN360M	360W	20.60%	34.20	10.53	41.04	11.16	±3%

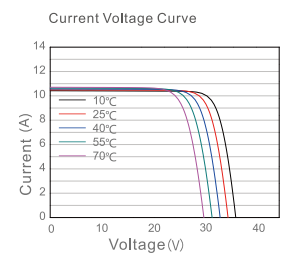
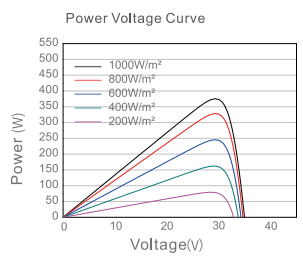
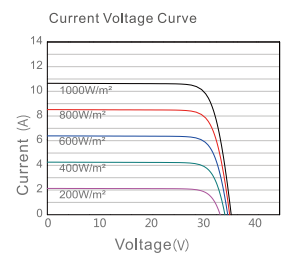
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	60Pcs(6x10)
Dimension	1540x1134x35mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*3*20AMOS diode
Cable	4.0mm ² (+)-900mm/(-)900mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M36034
Carton Size	1555x1149x83mm
Number	2Pcs/Ctn
G.W	38Kg/Ctn
N.W	36Kg/Ctn
20GP Container	280Pcs
40HQ Container	852Pcs

Characteristics



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

Module Picture



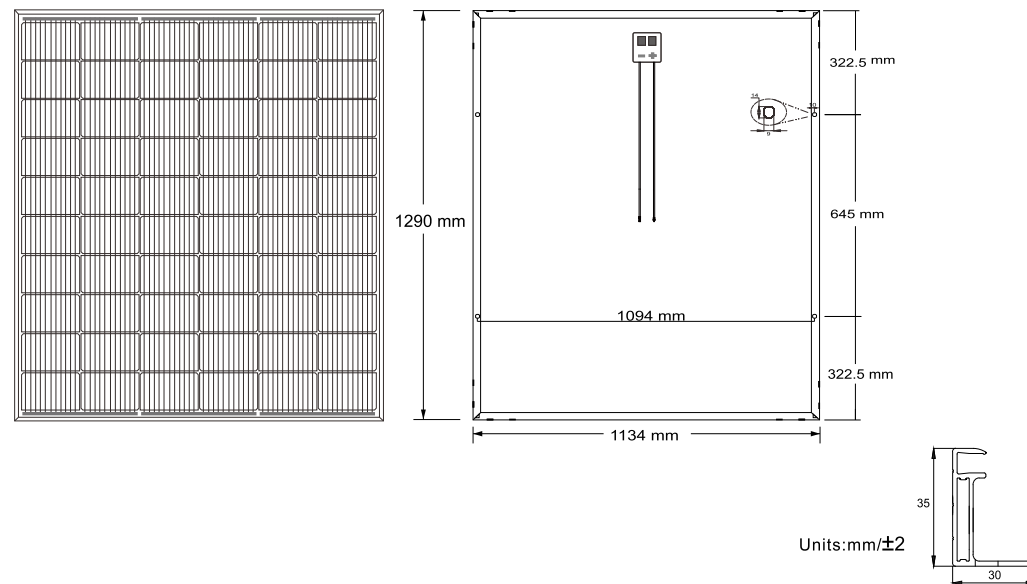
QN-182M30034

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams

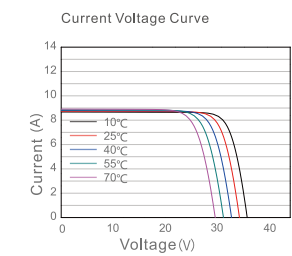
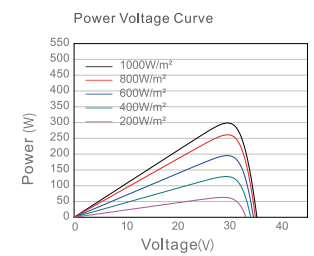
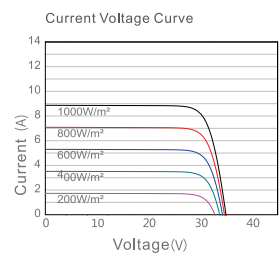


PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN300M	300W	20.25%	34.20	8.77	41.04	9.30	±3%

Characteristics



Mechanical Parameters

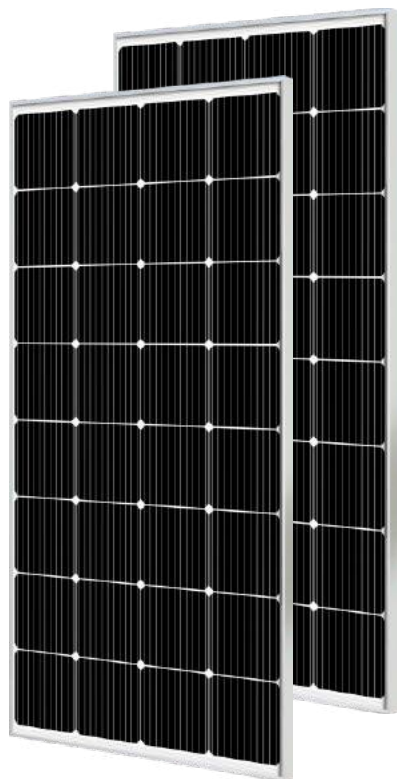
Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	60Pcs(6x10)
Dimension	1290x1134x35mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*3*20AMOS diode
Cable	4.0mm ² (+)-900mm(-)900mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M30034
Carton Size	1305x1149x83mm
Number	2Pcs/Ctn
G.W	29Kg/Ctn
N.W	27Kg/Ctn
20GP Container	296Pcs
40HQ Container	976Pcs

- 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

Module Picture



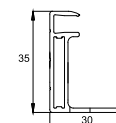
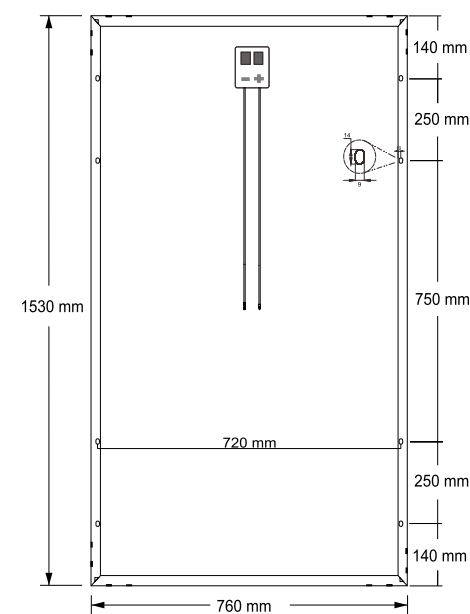
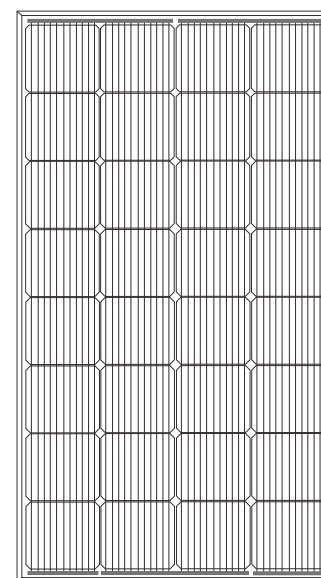
QN-182M24018

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



Units:mm/±2

PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN240M	240W	20.70%	18.24	13.16	21.80	13.95	±3%

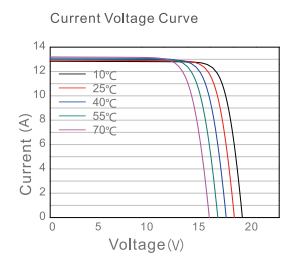
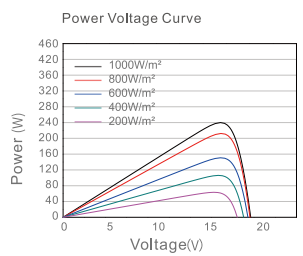
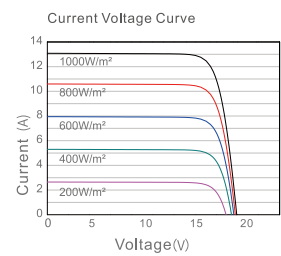
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	60Pcs(6x10)
Dimension	1530x760x35mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*3*20AMOS diode
Cable	4.0mm ² (+)-900mm(-)-900mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M24018
Carton Size	1545x775x83mm
Number	2Pcs/Ctn
G.W	24Kg/Ctn
N.W	22.2Kg/Ctn
20GP Container	456Pcs
40HQ Container	1276Pcs

Characteristics



- 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

Module Picture



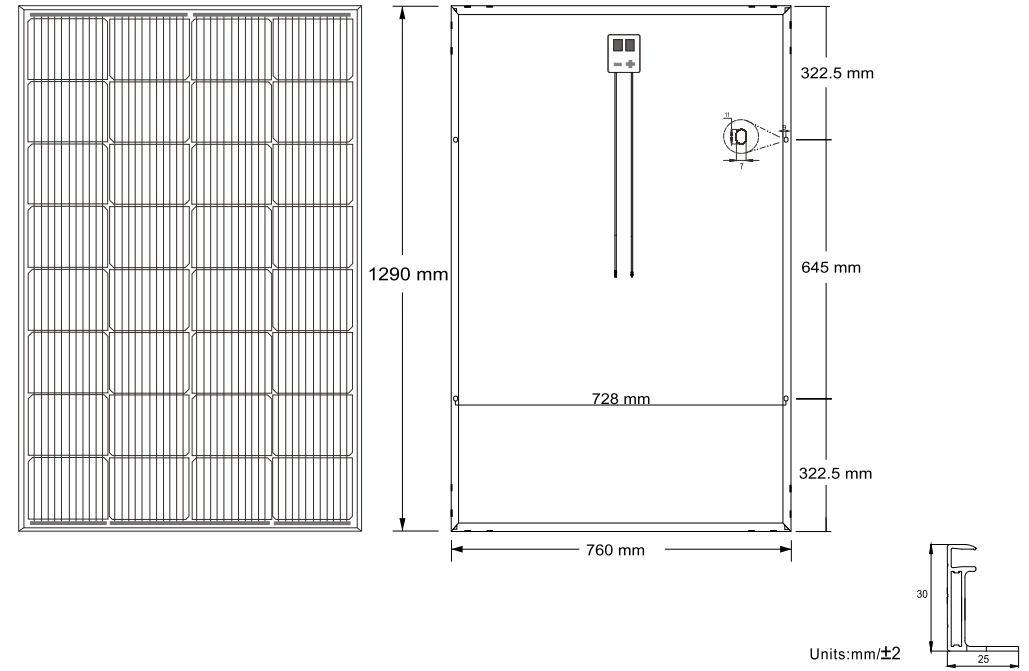
QN-182M20018

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN200M	200W	20.40%	18.24	10.96	21.80	11.62	±3%

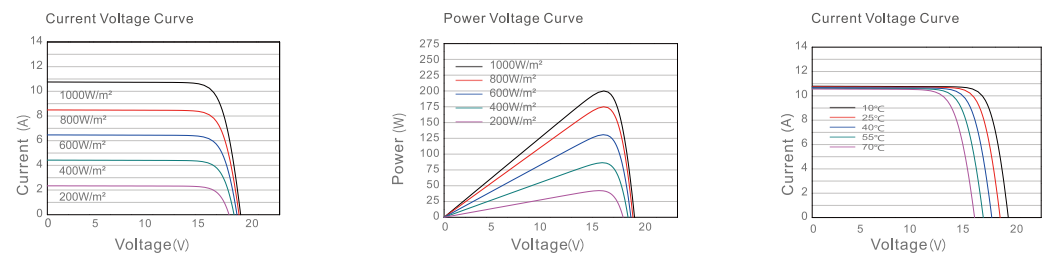
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	32Pcs(4x8)
Dimension	1290x760x30mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*2*15A diode
Cable	2.5mm ² (+)-700mm/(-)700mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M20018
Carton Size	1050x770x70mm
Number	2Pcs/Ctn
G.W	17Kg/Ctn
N.W	15.6Kg/Ctn
20GP Container	900Pcs
40HQ Container	2312Pcs

Characteristics



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

Module Picture



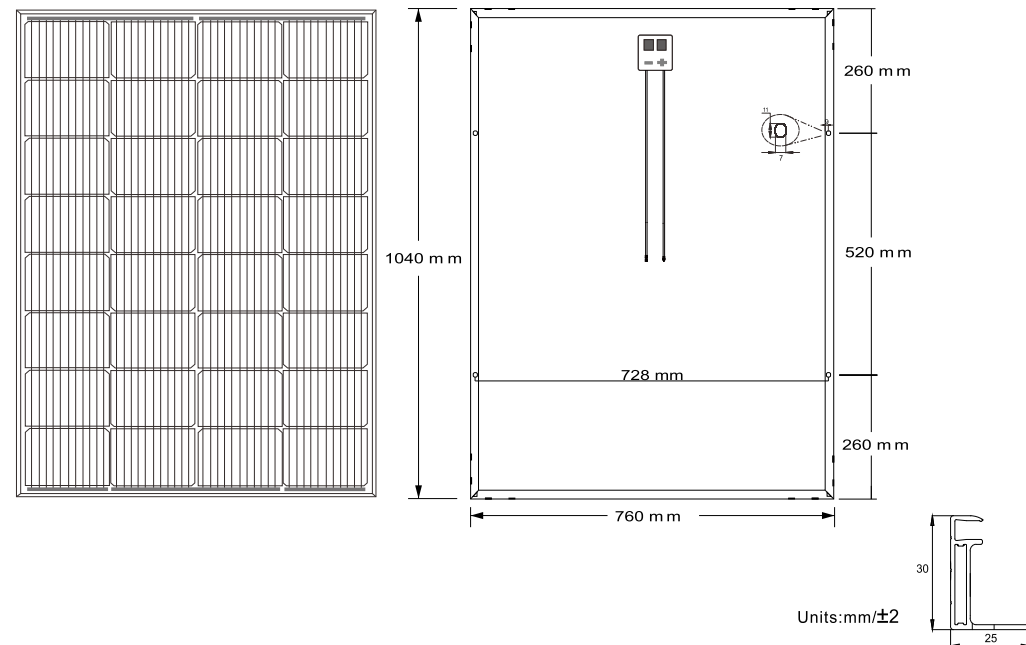
QN-182M16018

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



PS: Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN160M	160W	20.20%	18.24	8.77	21.80	9.30	±3%

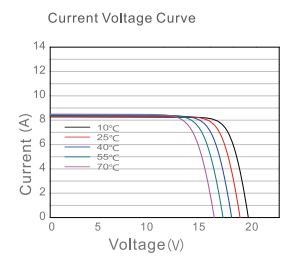
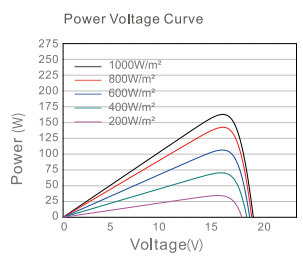
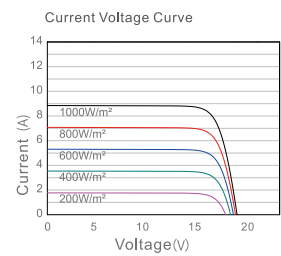
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	32Pcs(4x8)
Dimension	1040x760x30mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67'2*15A diode
Cable	2.5mm ² (+)-700mm(-)-700mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M16018
Carton Size	1050x770x70mm
Number	2Pcs/Ctn
G.W	17Kg/Ctn
N.W	15.6Kg/Ctn
20GP Container	900Pcs
40HQ Container	2312Pcs

Characteristics



- 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

Module Picture



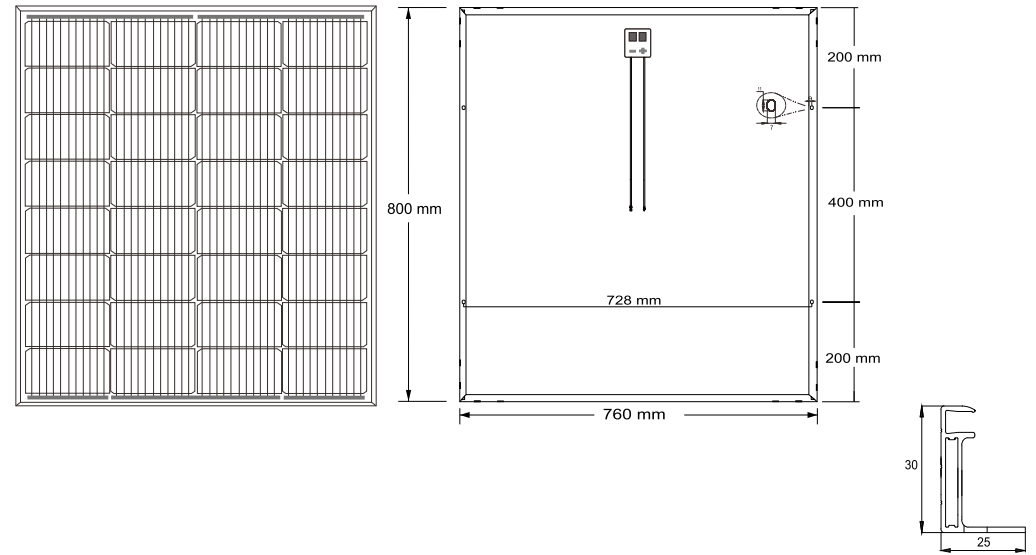
QN-182M12018

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



Units:mm/±2

PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN120M	120W	19.70%	18.24	6.58	21.80	6.97	±3%

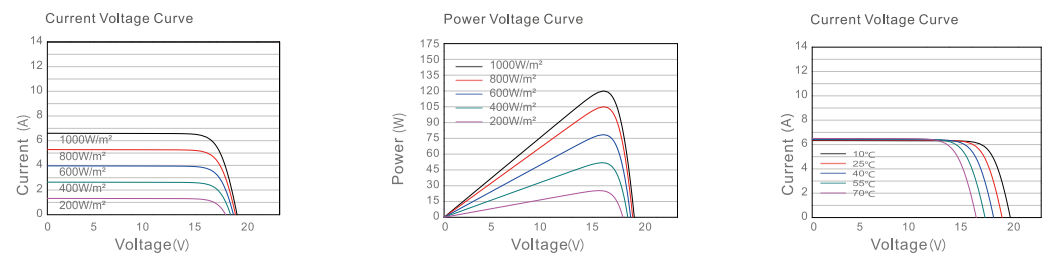
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	32Pcs(4x8)
Dimension	800x760x30mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*1*10A diode
Cable	2.0mm ² (+)-500mm(-)500mm
Connector	Original MC4/Compatible MC4

Packing

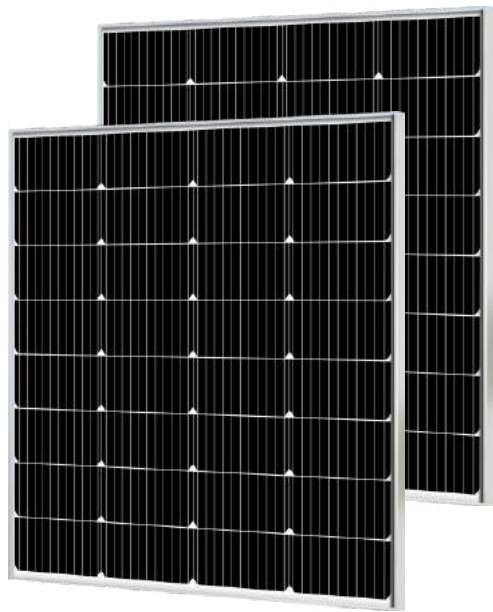
Module Type	QN-182M12018
Carton Size	810x770x70mm
Number	2Pcs/Ctn
G.W	15Kg/Ctn
N.W	13.8Kg/Ctn
20GP Container	1096Pcs
40HQ Container	2976Pcs

Characteristics



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

Module Picture



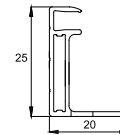
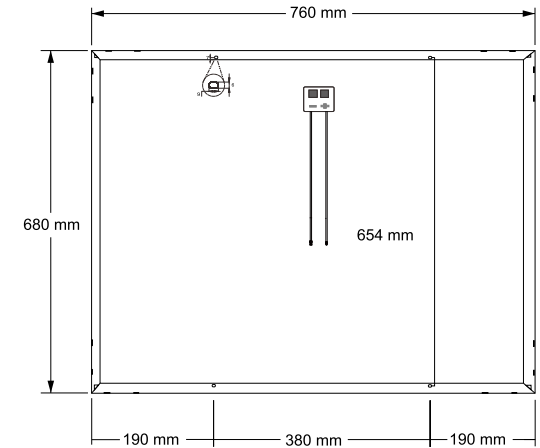
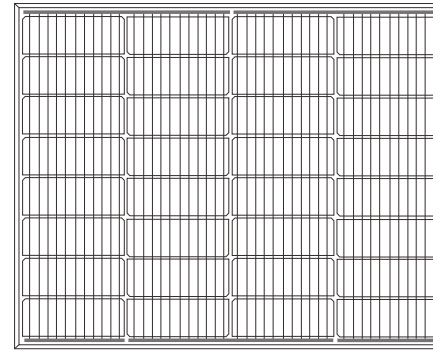
QN-182M10018

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



Units:mm/±2

PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN100M	100W	19.30%	18.24	5.48	21.80	5.81	±3%

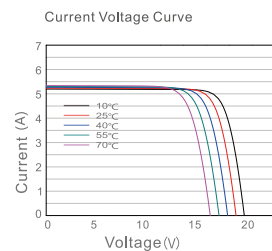
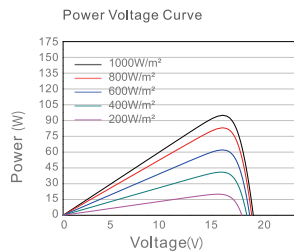
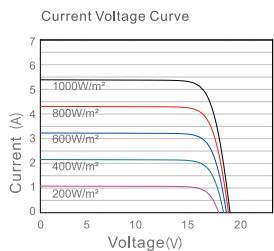
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	32Pcs(4x8)
Dimension	680x760x25mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*1*10A diode
Cable	2.0mm ² (+)-500mm(-)500mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M10018
Carton Size	690x770x60mm
Number	2Pcs/Ctn
G.W	13Kg/Ctn
N.W	11.8Kg/Ctn
20GP Container	1600Pcs
40HQ Container	4164Pcs

Characteristics



- 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

Module Picture



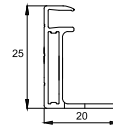
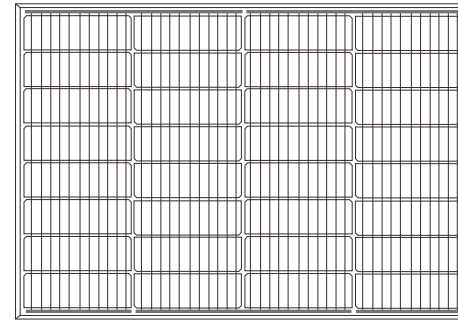
QN-182M08018

Comprehensive Certificates

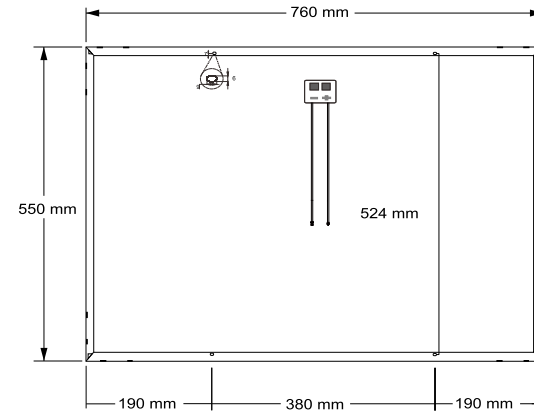
- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams



Units:mm/±2



PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN080M	80W	19.10%	18.24	4.39	21.80	4.65	±3%

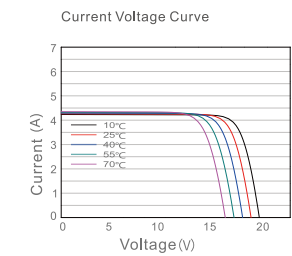
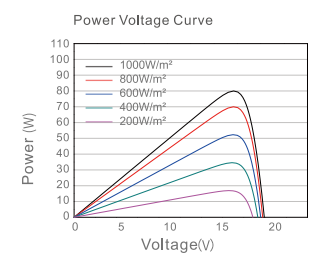
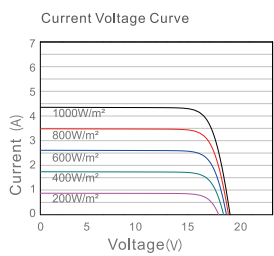
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	32Pcs(4x8)
Dimension	550x760x25mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*1*10A diode
Cable	2.0mm ² (+)-500mm(-)-500mm
Connector	Original MC4/Compatible MC4

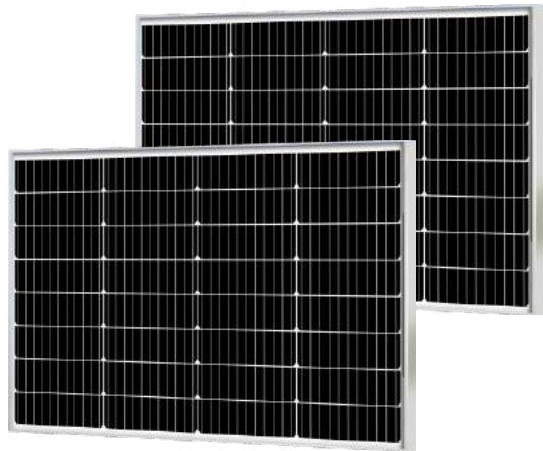
Packing

Module Type	QN-182M08018
Carton Size	560x770x60mm
Number	2Pcs/Ctn
G.W	11Kg/Ctn
N.W	10Kg/Ctn
20GP Container	1968Pcs
40HQ Container	5164Pcs

Characteristics



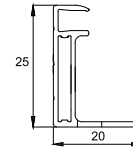
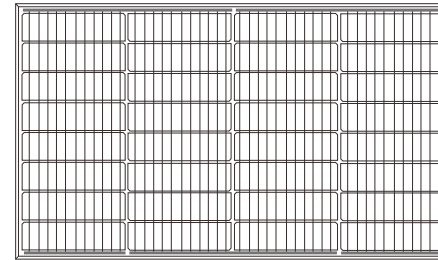
- STC: Light intensity 1000W/m² Battery temperature:25°C atmosphere quality=15
- NOCT: Light intensity 800W/m² Battery temperature:20°C atmosphere quality=15 wind velocity 1m/s



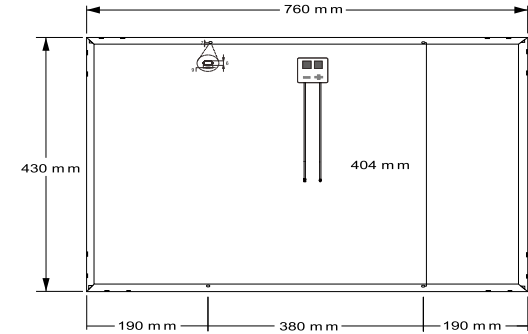
QN-182M06018

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Units:mm±2



PS:Frame color and cable length can be customized

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN060M	60W	18.30%	18.24	3.29	21.80	3.49	±3%

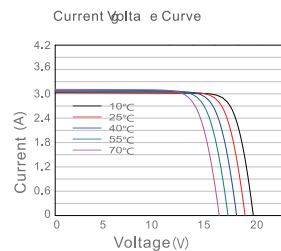
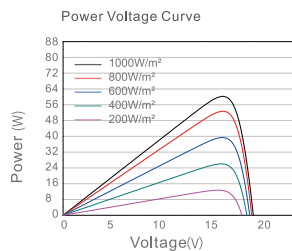
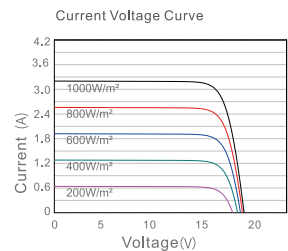
Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	32Pcs(4x8)
Dimension	430x760x25mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67*1*10A diode
Cable	2.0mm ² (+)-500mm/(-)500mm
Connector	Original MC4/Compatible MC4

Packing

Module Type	QN-182M06018
Carton Size	440x770x60mm
Number	2Pcs/Ctn
G.W	9Kg/Ctn
N.W	8.2Kg/Ctn
20GP Container	2476Pcs
40HQ Container	6600Pcs

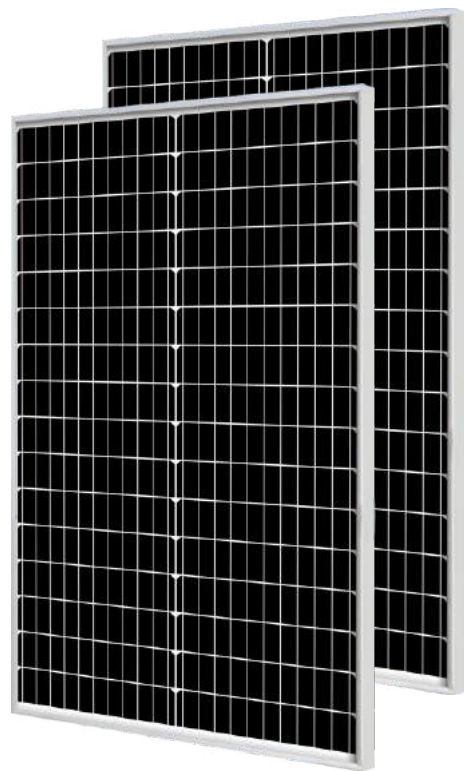
Characteristics



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

Module Picture



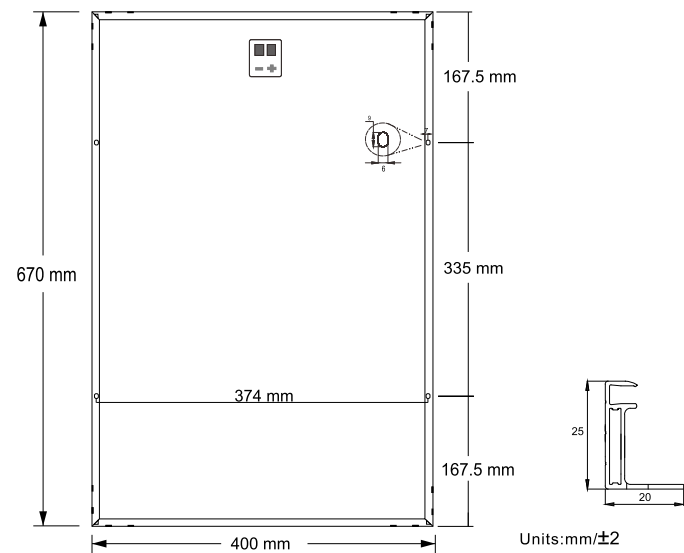
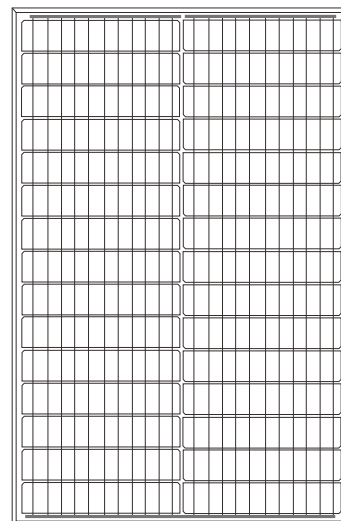
QN-182M05018

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



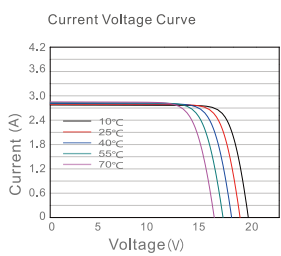
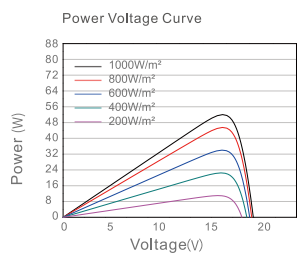
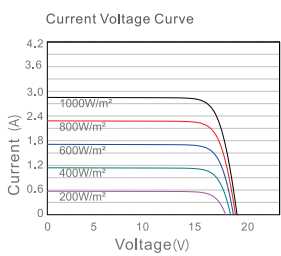
Mechanical Diagrams



Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN050M	50W	18.60%	18.24	2.74	21.80	2.97	±3%

Characteristics



PS:Frame color and cable length can be customized

Mechanical Parameters

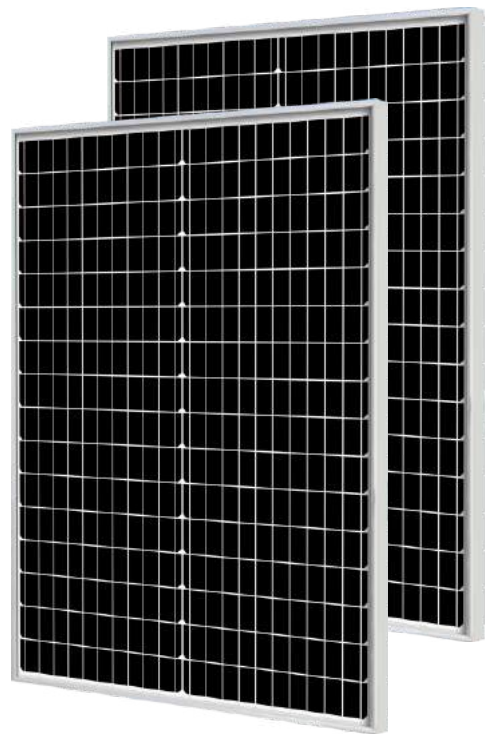
Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	32Pcs(2x16)
Dimension	670x400x25mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP 67
Cable	without cable

Packing

Module Type	QN-182M05018
Carton Size	680x410x135mm
Number	5Pcs/Ctn
G.W	20Kg/Ctn
N.W	19Kg/Ctn
20GP Container	3360Pcs
40HQ Container	8700Pcs

- 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

Module Picture



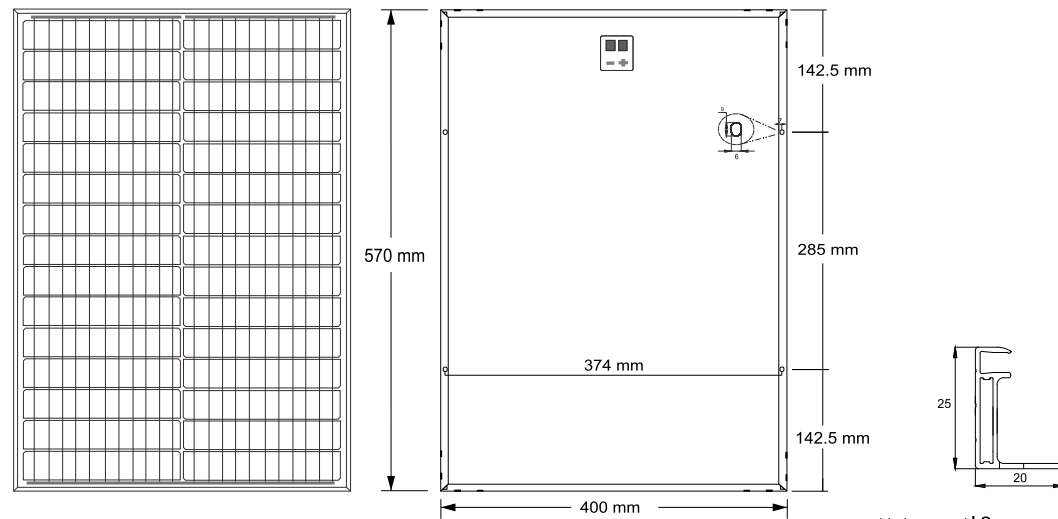
QN-182M04018

Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System



Mechanical Diagrams

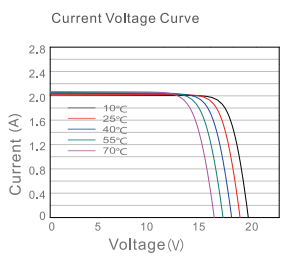
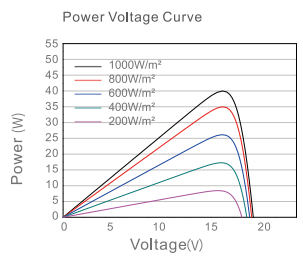
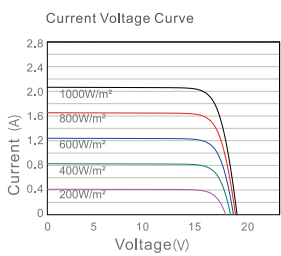


Units:mm/±2

Electrical Parameters at (STC)

Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
QN040M	40W	17.50%	18.24	2.19	21.80	2.39	±3%

Characteristics



PS:Frame color and cable length can be customized

Mechanical Parameters

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	32Pcs(2x16)
Dimension	570x400x25mm
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP 67
Cable	without cable

Packing

Module Type	QN-182M04018
Carton Size	580x410x135mm
Number	5Pcs/Ctn
G.W	15Kg/Ctn
N.W	14.2Kg/Ctn
20GP Container	3925Pcs
40HQ Container	10360Pcs

- 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

Final explanation rights reserved