

Shi Yu Photoelectric Product Specifications List



Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

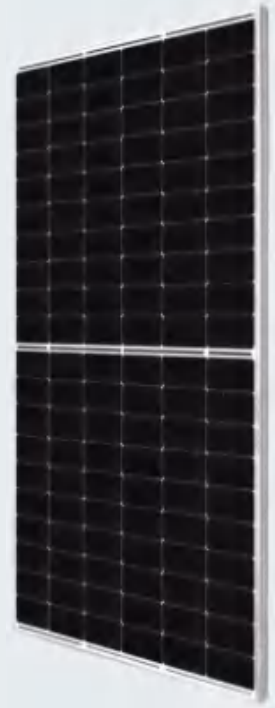
Product authentication



Size Of Product

Component model	Power bracket (w)	Component Size (mm)	Component type
SYD120H	440~460	1903*1134*30	182P single glass
SYD120H	435~455	1903*1134*30	182P double glass
SYD132H	490~510	2094*1134*30	182P single glass
SYD132H	485~505	2094*1134*30	182P double glass
SYD144H	540~560	2278*1134*30	182P single glass
SYD144H	535~555	2278*1134*30	182P double glass
SYE120H	590~610	2172*1303*30	210P single glass
SYE120H	585~605	2172*1303*30	210P double glass
SYE132H	650~670	2384*1303*30	210P single glass
SYE132H	645~665	2384*1303*30	210P double glass
SYD132H	565~585	2382*1134*30	Rectangular P-type single glass
SYD132H	560~580	2382*1134*30	Rectangular P-type double glass










The M10 series of the P type

SYD120H 440~460W

M10 series

The 182mm battery is integrated through multi-main gate and half piece component technology, M10 component combined with innovative technology, effectively improve the efficiency of the component and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

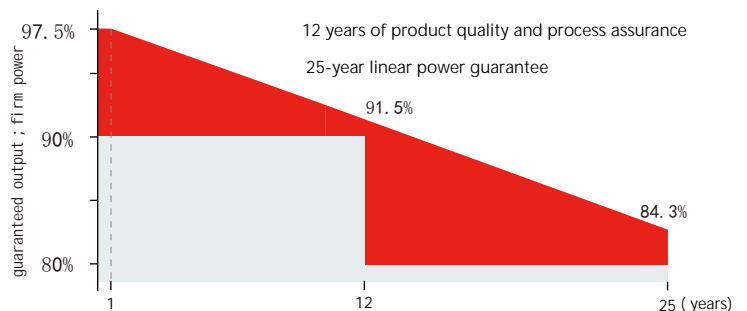
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



Electrical parameters@STC SYD120H 440~460W

Maximum power	Pmax(Wp)	440	445	450	455	460
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	33.72	33.82	33.91	34.06	34.20
Maximum power current	Imp (A)	13.05	13.16	13.27	13.36	13.45
Open circuit voltage	Voc(V)	41.02	41.10	41.18	41.33	41.48
Short circuit current	Isc(A)	13.73	13.79	13.85	13.93	14.01
Component efficiency	(%)	20.25	20.48	20.71	20.94	21.17

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	327	331	335	339	342
Maximum power voltage	Vm p (V)	31.39	31.56	31.73	31.91	32.07
Maximum power current	Im p(A)	10.43	10.49	10.55	10.61	10.67
Open circuit voltage	Voc(V)	38.72	38.79	38.87	39.01	39.15
Short circuit current	Isc(A)	11.09	11.14	11.19	11.25	11.32

NMOT: irradiance of 800W/m², ambient temperature of 20°C, atmospheric mass of 1.5, wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuit voltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 182×91mm
Component size (length×width×height)	1903×1134×30mm
Component weight	22.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

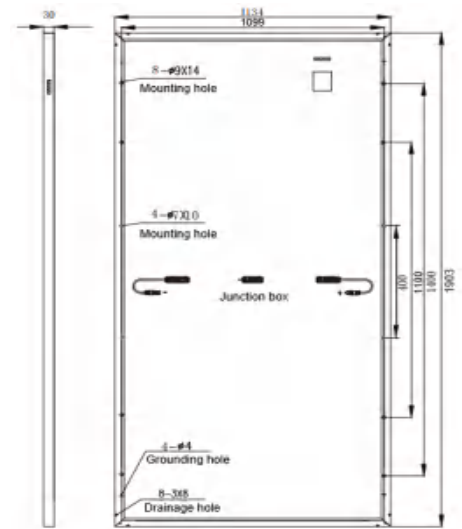
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 °C
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	25A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 °C

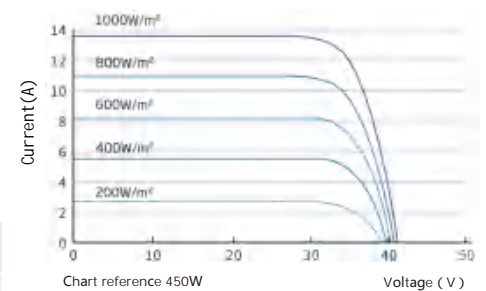
Packaging information

Single package	36piece
40 high cabinet/17.5m car	864/1224piece

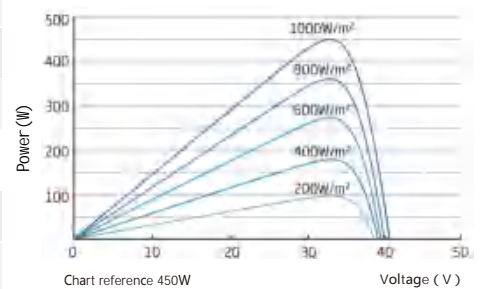
Component size(mm)



current-voltage curve



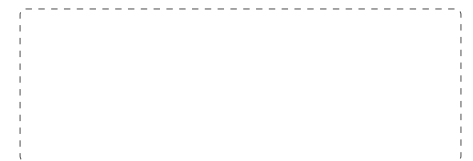
Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications

Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshysolar@163.com








M10 series P-type double glass

SYD120H 435~455W

M10 series

The 182mm cell is integrated through multi-main gate and half-chip module technology, M10 double glass module combined with innovative technology and double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

- ISO9001:2015
- ISO14001:2015
- ISO45001:2018

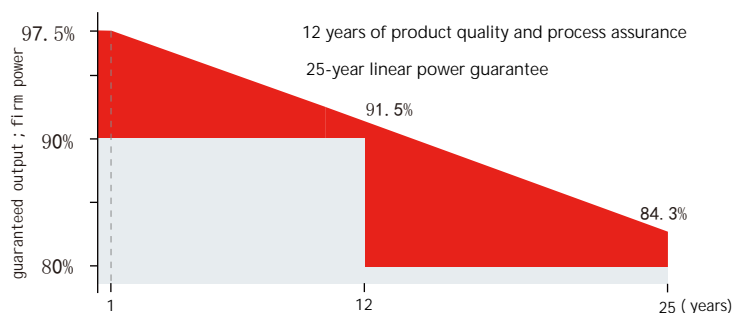
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee

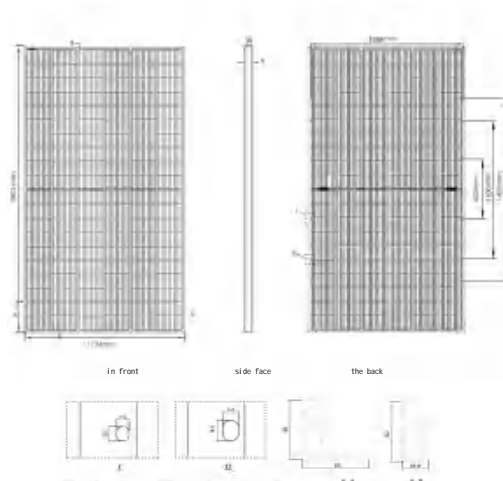


Electrical parameters@STC SYD120H 435~455W

Maximum power	Pmax(Wp)	435	440	445	450	455
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	34.12	34.32	34.50	34.67	34.87
Maximum power current	Imp (A)	12.75	12.82	12.90	12.98	13.05
Open circuit voltage	Voc(V)	40.96	41.09	41.21	41.33	41.46
Short circuit current	Isc(A)	13.64	13.71	13.79	13.87	13.94
Component efficiency	(%)	20.10	20.34	20.57	20.80	21.03

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

组件尺寸(mm)



Back Gain@BSTC (Take 450W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	473	495	518	540	563
Maximum power voltage	Vmp(V)	34.67	34.67	34.67	34.67	34.67
Maximum power current	Imp(A)	13.64	14.28	14.94	15.58	16.24
Open circuit voltage	Voc(V)	41.33	41.33	41.33	41.33	41.33
short circuit current	Isc(A)	14.56	15.26	15.95	16.64	17.34

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25°C.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuit voltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 182×91mm
Component size (length×width×height)	1903×1134×30mm
Component weight	25kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3

Packaging information

Single package	36piece
40 high cabinet/17.5m car	864/1224piece

current-voltage curve

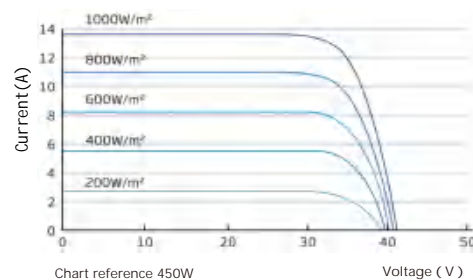


Chart reference 450W

Voltage (V)

Power-voltage curve

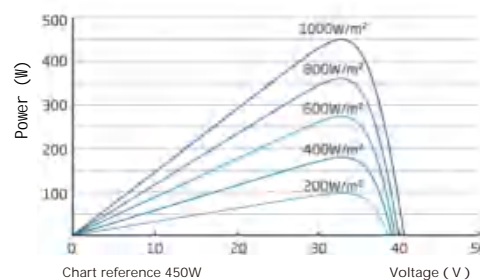


Chart reference 450W

Voltage (V)

*Power test tolerance ±3%

*No further notice upon the change of product specifications

Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com








The M10 series of the P type

SYD132H 490~510W

M10 series

The 182mm battery is integrated through multi-main gate and half piece component technology, M10 component combined with innovative technology, effectively improve the efficiency of the component and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

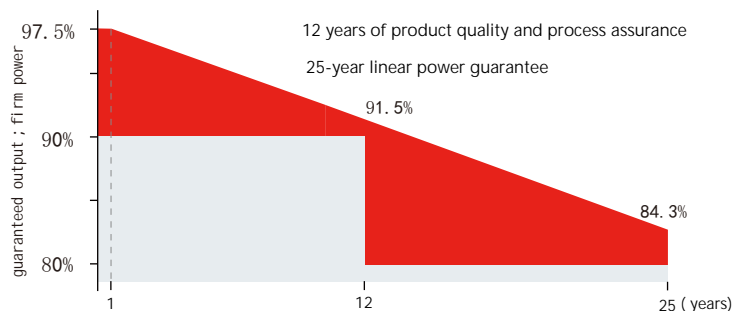
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components, at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee

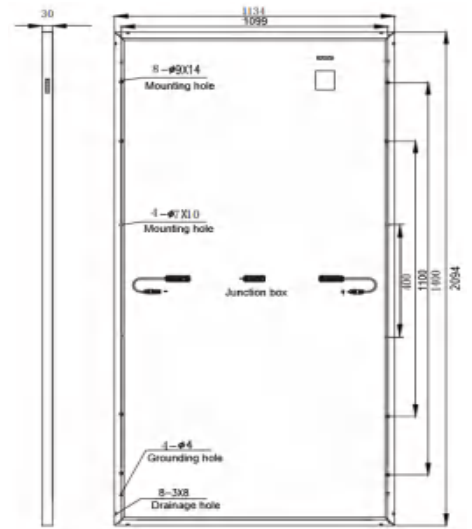


Electrical parameters@STC SYD132H 490~510W

Maximum power	Pmax(Wp)	490	495	500	505	510
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	38.35	38.47	38.55	38.64	38.73
Maximum power current	Imp (A)	12.78	12.87	12.97	13.07	13.17
Open circuit voltage	Voc(V)	45.37	45.47	45.55	45.65	45.75
Short circuit current	Isc(A)	13.63	13.74	13.85	13.96	14.07
Component efficiency	(%)	20.64	20.85	21.06	21.27	21.48

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

Component size(mm)



Electrical parameters@NMOT

Maximum power	Pmax(Wp)	364	369	372	376	379
Maximum power voltage	Vm p (V)	35.01	35.10	35.16	35.24	35.30
Maximum power current	Im p(A)	10.42	10.50	10.59	10.67	10.76
Open circuit voltage	Voc(V)	42.19	42.28	42.35	42.45	42.50
Short circuit current	Isc(A)	11.01	11.10	11.19	11.27	11.36

NMOT: irradiance of 800W/m², ambient temperature of 20°C, atmospheric mass of 1.5, wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuit voltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 182×91mm
Component size (length×width×height)	2094×1134×30mm
Component weight	25kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

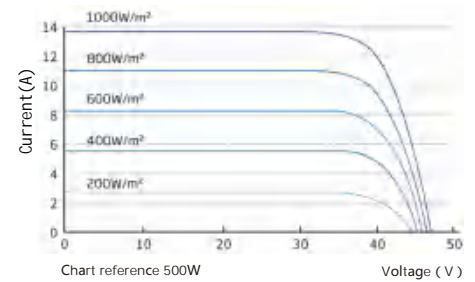
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 °C
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	25A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 °C

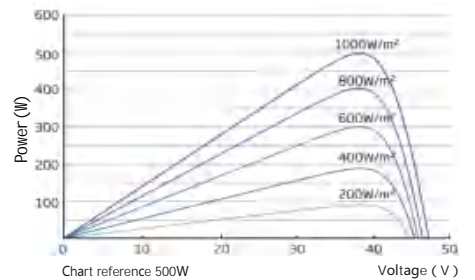
Packaging information

Single package	36piece
40 high cabinet/17.5m car	792/1152piece

current-voltage curve



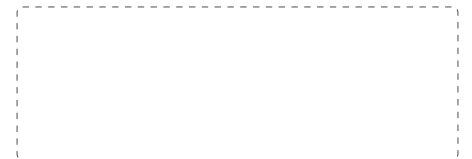
Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications

Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshysolar@163.com








M10 series P-type double glass

SYD132H 485~505W

M10 series

The 182mm cell is integrated through multi-main gate and half-chip module technology, M10 double glass module combined with innovative technology and double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

- ISO9001:2015
- ISO14001:2015
- ISO45001:2018

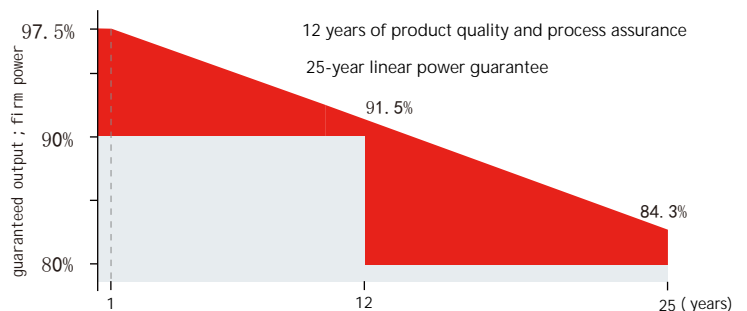
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



Electrical parameters@STC SYD132H 485~505W

Maximum power	Pmax(Wp)	485	490	495	500	505
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	37.93	38.08	38.23	38.38	38.53
Maximum power current	Imp (A)	12.79	12.87	12.96	13.03	13.11
Open circuit voltage	Voc(V)	45.10	45.25	45.40	45.55	45.70
Short circuit current	Isc(A)	13.67	13.75	13.83	13.91	13.99
Component efficiency	(%)	20.42	20.64	20.85	21.06	21.27

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

Back Gain@BSTC (Take 495W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	520	545	569	594	619
Maximum power voltage	Vmp(V)	38.23	38.23	38.23	38.23	38.23
Maximum power current	Imp(A)	13.60	14.26	14.88	15.54	16.19
Open circuit voltage	Voc(V)	45.40	45.40	45.40	45.40	45.40
short circuit current	Isc(A)	14.52	15.21	15.90	16.60	17.29

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25°C.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuit voltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 182×91mm
Component size (length×width×height)	2094×1134×30mm
Component weight	28kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

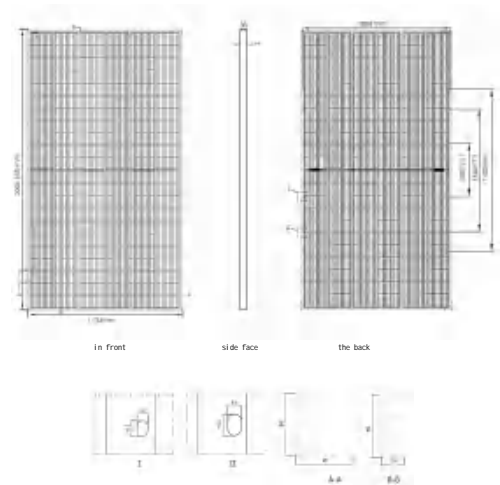
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3

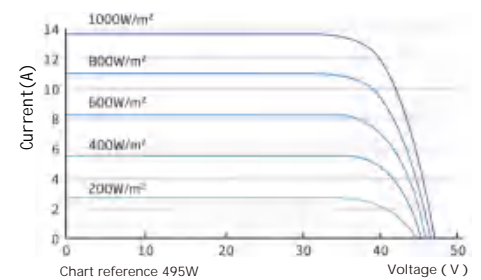
Packaging information

Single package	36piece
40 high cabinet/17.5m car	792/1152piece

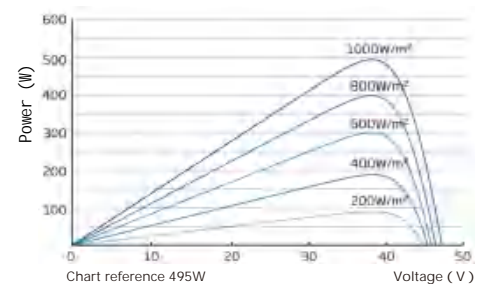
组件尺寸(mm)



current-voltage curve

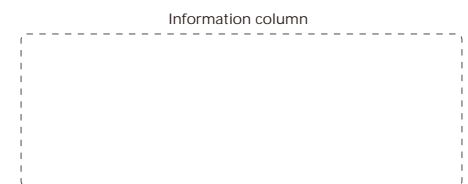


Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com








The M10 series of the P type

SYD144H 540~560W

M10 series

The 182mm battery is integrated through multi-main gate and half piece component technology, M10 component combined with innovative technology, effectively improve the efficiency of the component and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

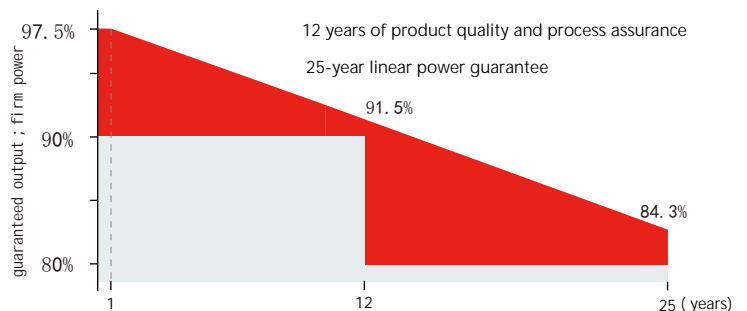
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components, at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



Electrical parameters@STC SYD144H 540~560W

Maximum power	Pmax(Wp)	540	545	550	555	560
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.70	40.80	40.90	40.99	41.09
Maximum power current	Imp (A)	13.27	13.36	13.45	13.54	13.63
Open circuit voltage	Voc(V)	49.42	49.52	49.62	49.72	49.82
Short circuit current	Isc(A)	13.85	13.94	14.03	14.12	14.21
Component efficiency	(%)	20.90	21.10	21.29	21.48	21.68

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	402	405	409	413	417
Maximum power voltage	Vm p (V)	38.08	38.25	38.42	38.59	38.69
Maximum power current	Im p(A)	10.55	10.60	10.65	10.70	10.77
Open circuit voltage	Voc(V)	46.65	46.74	46.84	46.93	47.02
Short circuit current	Isc(A)	11.19	11.26	11.33	11.40	11.48

NMOT: irradiance of 800W/m², ambient temperature of 20°C, atmospheric mass of 1.5, wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuit voltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 182×91mm
Component size (length×width×height)	2278×1134×30mm
Component weight	27kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

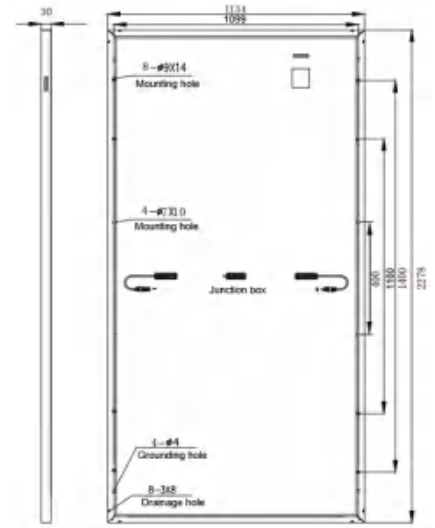
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 °C
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	25A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 °C

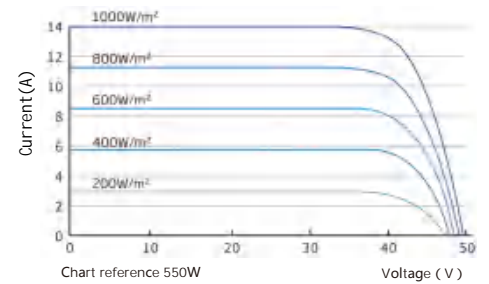
Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/1080piece

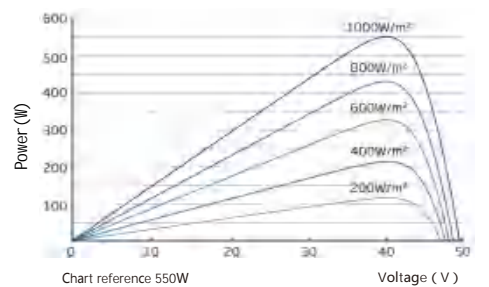
Component size(mm)



current-voltage curve



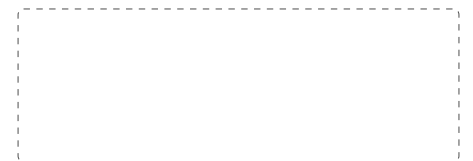
Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications

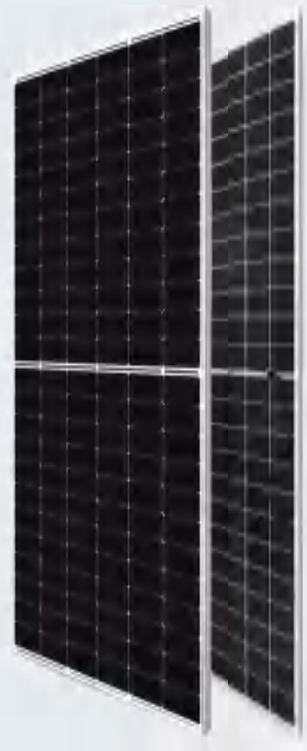
Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com








M10 series P-type double glass

SYD144H 535~555W

M10 series

The 182mm cell is integrated through multi-main gate and half-chip module technology, M10 double glass module combined with innovative technology and double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

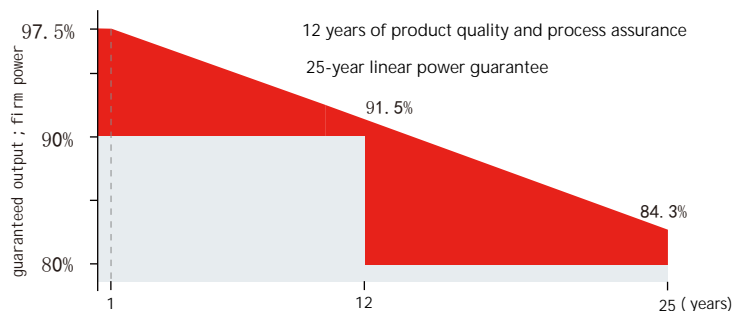
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee

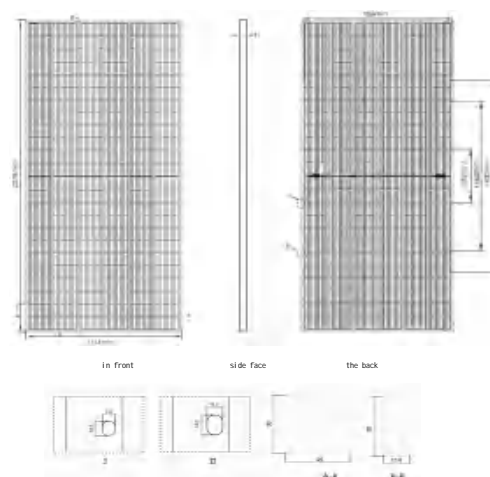


Electrical parameters@STC SYD144H 535~555W

Maximum power	Pmax(Wp)	535	540	545	550	555
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.94	41.13	41.32	41.51	41.70
Maximum power current	Imp (A)	13.07	13.13	13.19	13.25	13.31
Open circuit voltage	Voc(V)	49.54	49.73	49.92	50.11	50.30
Short circuit current	Isc(A)	13.83	13.89	13.95	14.01	14.07
Component efficiency	(%)	20.71	20.90	21.10	21.29	21.48

STC: irradiance 1000W/m², componenttemperature 25°C, atmospheric mass 1.5.

组件尺寸(mm)



Back Gain@BSTC (Take 545W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	572	600	627	654	681
Maximum power voltage	Vmp(V)	41.32	41.32	41.32	41.32	41.32
Maximum power current	Imp(A)	13.84	14.52	15.17	15.83	16.48
Open circuit voltage	Voc(V)	49.92	49.92	49.92	49.92	49.92
short circuit current	Isc(A)	14.64	15.35	16.04	16.74	17.44

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25°C.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuitvoltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 182×91mm
Component size (length×width×height)	2278×1134×30mm
Component weight	31.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~ +85
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3

Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/1080piece

current-voltage curve

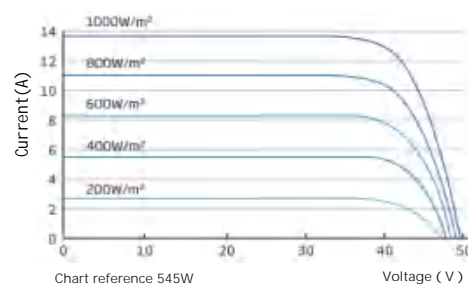


Chart reference 545W

Chart reference 545W

Power-voltage curve

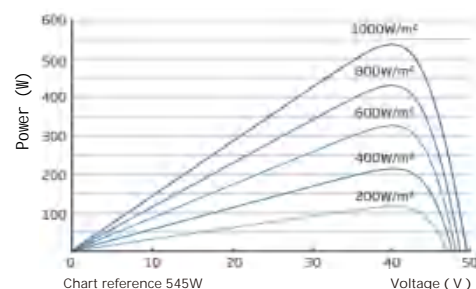


Chart reference 545W

Chart reference 545W

*Power test tolerance ±3%

*No further notice upon the change of product specifications

Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com








The G12 series of the P type

SYE120H 590~610W

G12 series

The 210mm battery is integrated through multi-main gate and half chip component technology, GG 12 series 12 components combined with innovative technology, effectively improve the component efficiency and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

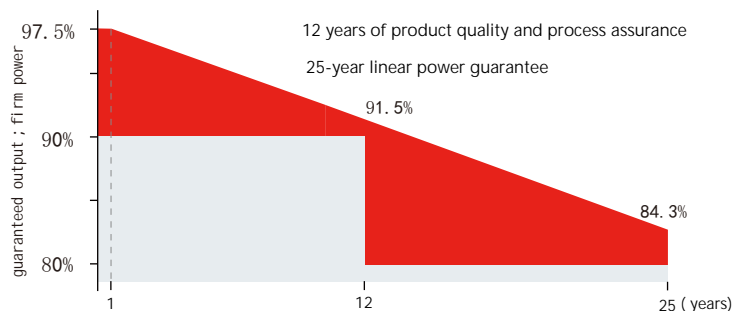
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components, at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



Electrical parameters@STC SYE120H 590~610W

Maximum power	Pmax(Wp)	590	595	600	605	610
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	34.01	34.20	34.41	34.60	34.78
Maximum power current	Imp (A)	17.35	17.40	17.44	17.49	17.54
Open circuit voltage	Voc(V)	41.11	41.30	41.51	41.70	41.89
Short circuit current	Isc(A)	18.42	18.47	18.52	18.57	18.62
Component efficiency	(%)	20.84	21.02	21.20	21.38	21.55

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	441	445	448	452	456
Maximum power voltage	Vm p (V)	31.56	31.73	31.91	32.08	32.24
Maximum power current	Im p(A)	13.98	14.01	14.05	14.10	14.14
Open circuit voltage	Voc(V)	38.46	38.63	38.82	39.00	39.17
Short circuit current	Isc(A)	14.85	14.89	14.93	14.98	15.02

NMOT: irradiance of 800W/m², ambient temperature of 20°C, atmospheric mass of 1.5, wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuit voltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 210×105mm
Component size (length×width×height)	2172×1303×30mm
Component weight	30kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

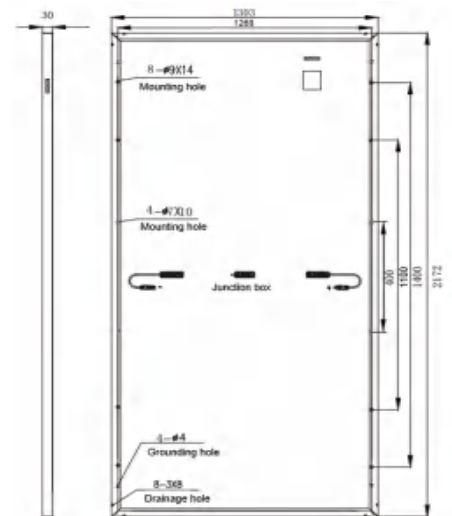
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 °C
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 °C

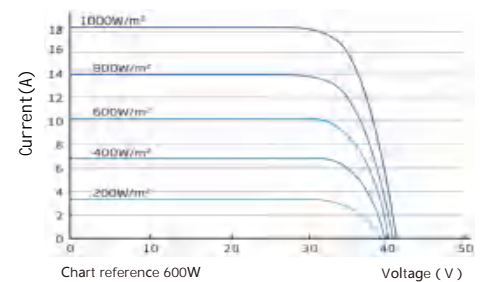
Packaging information

Single package	36piece
40 high cabinet/17.5m car	648/972piece

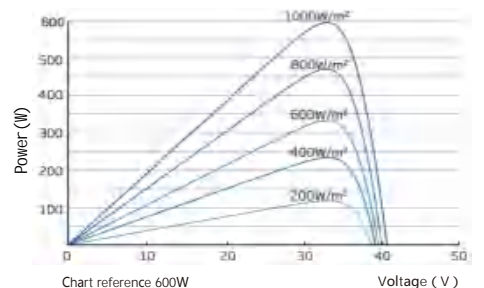
Component size(mm)



current-voltage curve



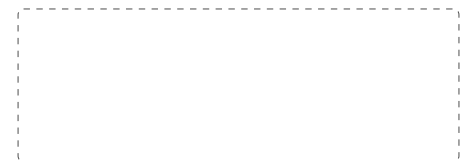
Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications

Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com

G12 series P-type double glass






SYE120H 585~605W



G12 series

The 210mm battery is integrated through multi-main gate and half piece module technology, G12 double glass module combines innovative technology and double-sided power generation technology (up to 25%) G12 series, effectively improve the module efficiency and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

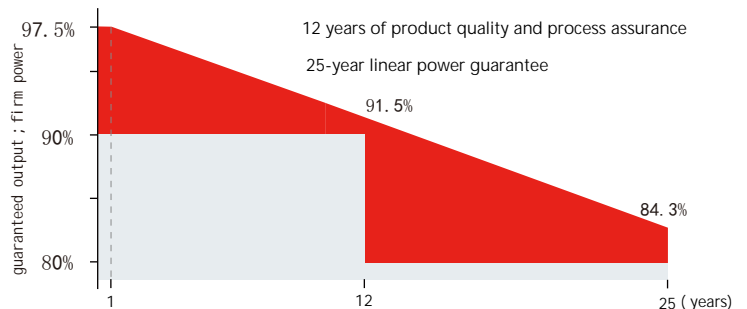
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



Electrical parameters@STC SYE120H 585~605W

Maximum power	Pmax(Wp)	585	590	595	600	605
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	34.00	34.20	34.40	34.60	34.80
Maximum power current	Imp (A)	17.21	17.25	17.30	17.34	17.39
Open circuit voltage	Voc(V)	41.10	41.30	41.50	41.70	41.90
Short circuit current	Isc(A)	18.26	18.31	18.36	18.42	18.48
Component efficiency	(%)	20.67	20.85	21.02	21.20	21.38

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

Back Gain@BSTC (Take 595W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	625	655	684	714	744
Maximum power voltage	Vmp(V)	34.40	34.40	34.40	34.40	34.40
Maximum power current	Imp(A)	18.17	19.04	19.88	20.76	21.63
Open circuit voltage	Voc(V)	41.50	41.50	41.50	41.50	41.50
short circuit current	Isc(A)	19.28	20.20	21.11	22.03	22.95

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25°C.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuitvoltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 210×105mm
Component size (length×width×height)	2172×1303×30mm
Component weight	34kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

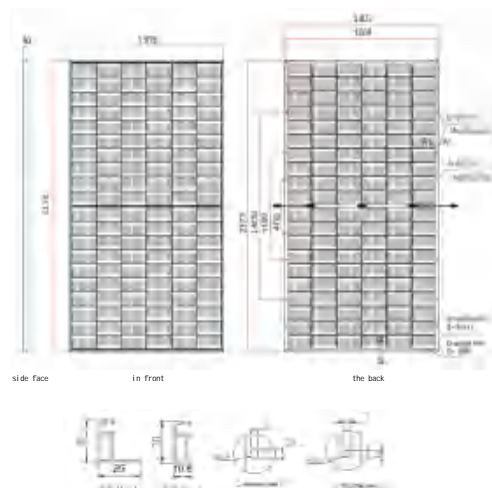
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 °C
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	35A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 °C

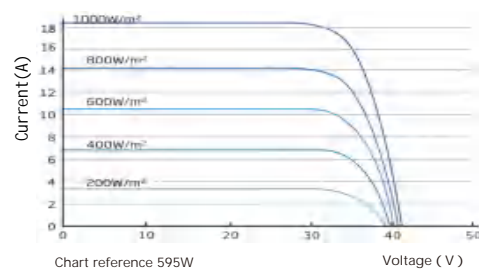
Packaging information

Single package	36piece
40 high cabinet/17.5m car	648/864piece

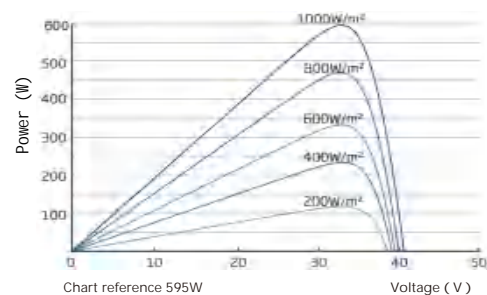
组件尺寸(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications

Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com








The G12 series of the P type

SYE132H 650~670W

G12 series

The 210mm battery is integrated through multi-main gate and half chip component technology, GG 12 series 12 components combined with innovative technology, effectively improve the component efficiency and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

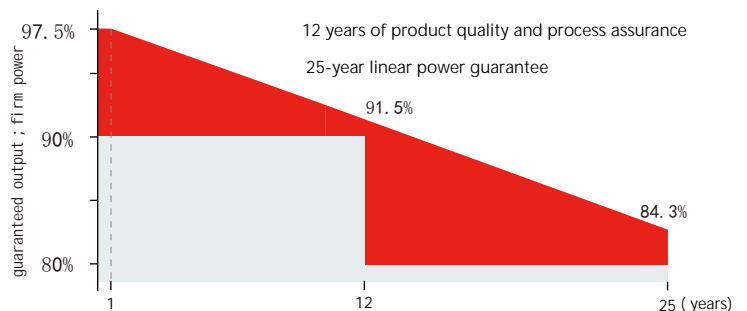
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components, at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee

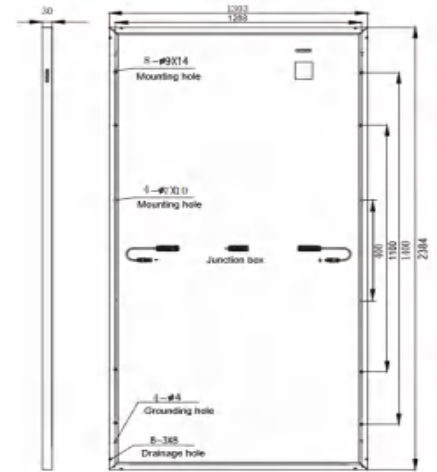


Electrical parameters@STC SYE132H 650~670W

Maximum power	Pmax(Wp)	650	655	660	665	670
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	37.39	37.59	37.79	37.99	38.19
Maximum power current	Imp (A)	17.39	17.43	17.47	17.51	17.55
Open circuit voltage	Voc(V)	45.29	45.49	45.69	45.89	46.09
Short circuit current	Isc(A)	18.43	18.49	18.52	18.58	18.63
Component efficiency	(%)	20.92	21.09	21.25	21.41	21.57

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

Component size(mm)



Electrical parameters@NMOT

Maximum power	Pmax(Wp)	492	496	500	504	508
Maximum power voltage	Vmp (V)	34.89	35.09	35.29	35.49	35.69
Maximum power current	Imp(A)	14.11	14.14	14.17	14.21	14.24
Open circuit voltage	Voc(V)	42.59	42.79	42.99	43.19	43.39
Short circuit current	Isc(A)	18.43	18.49	18.52	18.58	18.63

NMOT: irradiance of 800W/m², ambient temperature of 20°C, atmospheric mass of 1.5, wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuit voltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 210×105mm
Component size (length×width×height)	2384×1303×30mm
Component weight	32kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

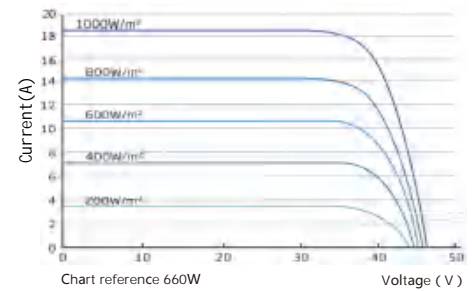
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 °C
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 °C

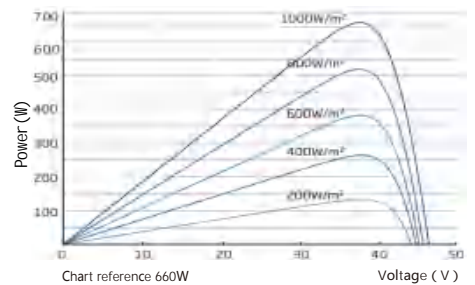
Packaging information

Single package	36piece
40 high cabinet/17.5m car	648/864piece

current-voltage curve



Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications

Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com

G12 series P-type double glass






SYE132H 645~665W



G12 series

The 210mm battery is integrated through multi-main gate and half piece module technology, G12 double glass module combines innovative technology and double-sided power generation technology (up to 25%) G12 series, effectively improve the module efficiency and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

- ISO9001:2015
- ISO14001:2015
- ISO45001:2018

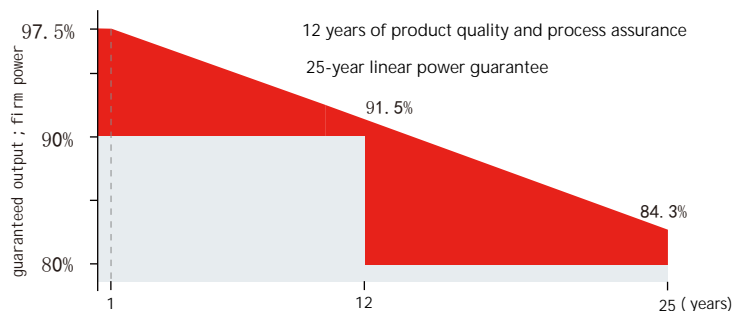
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components, at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



Electrical parameters@STC SYE132H 645~665W

Maximum power	Pmax(Wp)	645	650	655	660	665
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	37.50	37.70	37.90	38.10	38.30
Maximum power current	Imp (A)	17.23	17.27	17.31	17.35	17.39
Open circuit voltage	Voc(V)	45.30	45.50	45.70	45.90	46.10
Short circuit current	Isc(A)	18.31	18.35	18.40	18.45	18.5
Component efficiency	(%)	20.76	20.92	21.09	21.25	21.41

STC: irradiance 1000W/m², componenttemperature 25°C, atmospheric mass 1.5.

Back Gain@BSTC (Take 655W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	688	721	753	786	819
Maximum power voltage	Vmp(V)	37.90	37.90	37.90	37.90	37.90
Maximum power current	Imp(A)	18.15	19.02	19.87	20.74	21.61
Open circuit voltage	Voc(V)	45.70	45.70	45.70	45.70	45.70
short circuit current	Isc(A)	19.32	20.24	21.16	22.08	23.00

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25°C.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuitvoltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 210×105mm
Component size (length×width×height)	2384×1303×30mm
Component weight	37.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 °C
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	35A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 °C

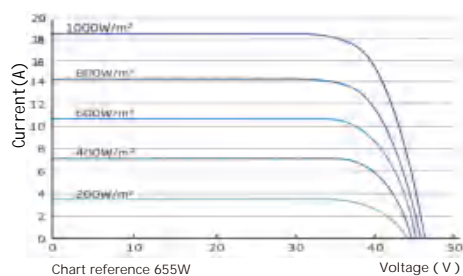
Packaging information

Single package	36piece
40 high cabinet/17.5m car	648/792piece

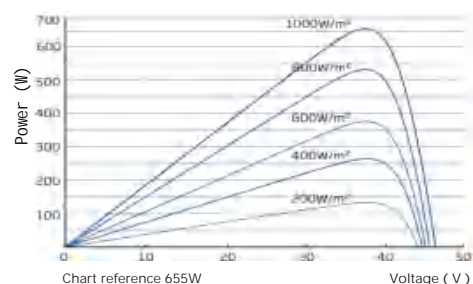
组件尺寸(mm)



current-voltage curve



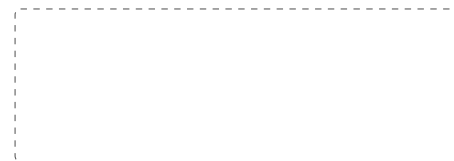
Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications

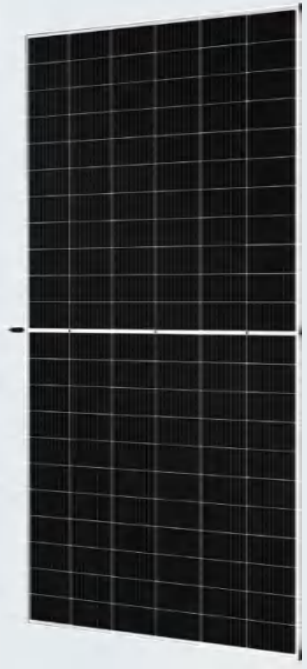
Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com








Rectangular series P type

SYD132H 565~585W

Rectangle series (182 * 210)

The 182 * 210mm battery is integrated through multi-main gate and half chip component technology, combined with innovative technology to effectively improve the efficiency of component and output power.

Product features

-  Higher system voltage, effectively reduce the BOS costs
-  Lower operating temperature and temperature coefficient, to obtain higher returns
-  Significantly reduced thermal spot temperature and shadow shading effects
-  Half-sheet design to obtain better mechanical loading performance
-  Can withstand harsher conditions

Management system

ISO9001:2015
 ISO14001:2015
 ISO45001:2018

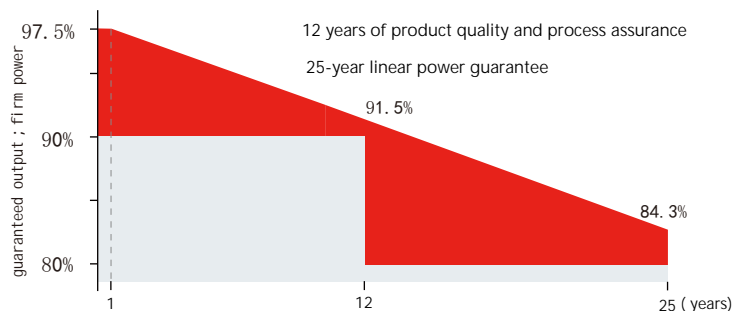
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



Electrical parameters@STC SYD132H 565~585W

Maximum power	Pmax(Wp)	565	570	575	580	585
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	38.30	38.50	38.80	39.00	39.30
Maximum power current	Imp (A)	14.76	14.79	14.83	14.86	14.90
Open circuit voltage	Voc(V)	45.60	45.80	46.10	46.30	46.60
Short circuit current	Isc(A)	15.81	15.85	15.90	15.94	15.99
Component efficiency	(%)	20.92	21.10	21.29	21.47	21.66

STC: irradiance 1000W/m², component temperature 25°C, atmospheric mass 1.5.

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	428	431	435	439	443
Maximum power voltage	Vm p (V)	35.30	35.50	35.80	35.90	36.20
Maximum power current	Im p(A)	12.10	12.13	12.17	12.20	12.24
Open circuit voltage	Voc(V)	42.90	43.10	43.40	43.60	43.90
Short circuit current	Isc(A)	12.74	12.77	12.81	12.84	12.88

NMOT: irradiance of 800W/m², ambient temperature of 20°C, atmospheric mass of 1.5, wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/
Open-circuit voltage (VOC) temperature coefficient	-0.26%/
Short-circuit current (ISC) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 182×105mm
Component size (length×width×height)	2382×1134×30mm
Component weight	28kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

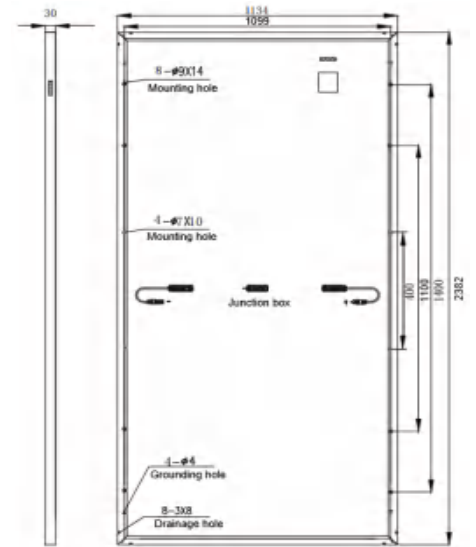
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 °C
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 °C

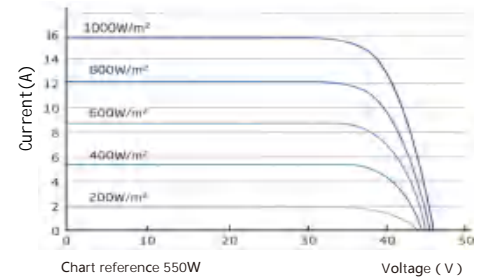
Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/1008piece

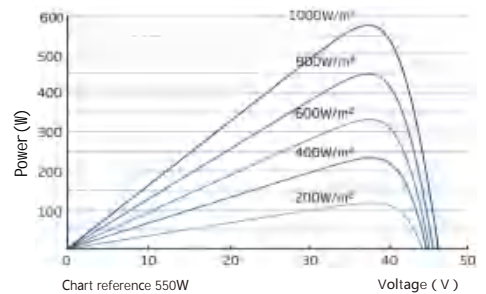
Component size(mm)



current-voltage curve



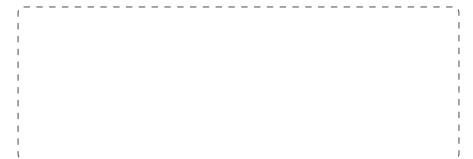
Power-voltage curve



*Power test tolerance ±3%

*No further notice upon the change of product specifications

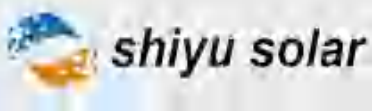
Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com



Rectangular series of P-type double-glass glass

SYD132H 560~580W



Rectangle series (182 * 210)

The 182 * 210mm battery is integrated through multi-main gate and half-chip module technology, which combines innovative technology and double-sided power generation technology (up to 25%) to effectively improve the component efficiency and output power.

Product features

- Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand harsher conditions

Management system

- ISO9001:2015
- ISO14001:2015
- ISO45001:2018

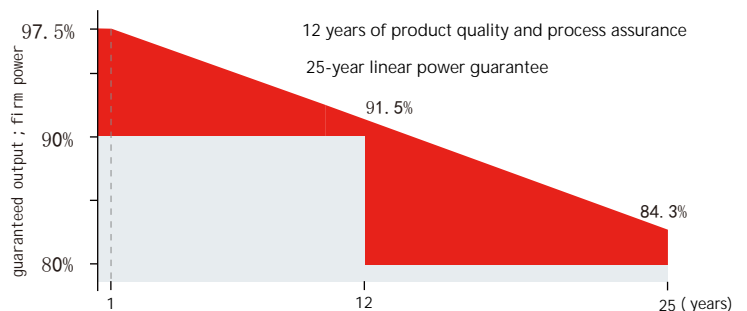
Product authentication



Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



Electrical parameters@STC SYD132H 560~580W

Maximum power	P _{max} (Wp)	560	565	570	575	580
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	V _{mp} (V)	37.90	38.20	38.40	38.70	38.90
Maximum power current	I _{mp} (A)	14.76	14.80	14.84	14.87	14.91
Open circuit voltage	V _{oc} (V)	45.20	45.50	45.70	46.00	46.20
Short circuit current	I _{sc} (A)	15.86	15.90	15.93	15.97	16.01
Component efficiency	(%)	20.73	20.92	21.10	21.29	21.47

STC: irradiance 1000W/m², componenttemperature 25°C, atmospheric mass 1.5.

Back Gain@BSTC (Take 570W)

Back gain		5%	10%	15%	20%	25%
Maximum power	P _{max} (Wp)	599	627	656	684	713
Maximum power voltage	V _{mp} (V)	38.40	38.40	38.40	38.40	38.40
Maximum power current	I _{mp} (A)	15.60	16.32	17.08	17.81	18.57
Open circuit voltage	V _{oc} (V)	45.70	45.70	45.70	45.70	45.70
short circuit current	I _{sc} (A)	16.72	17.52	18.32	19.12	19.91

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25°C.

Temperature coefficient

Maximum power (P _{max}) temperature coefficient	-0.34%/
Open-circuitvoltage (V _{OC}) temperature coefficient	-0.26%/
Short-circuit current (I _{SC}) temperature coefficient	+0.05%/

Mechanical parameters

Battery type	PERC 182×105mm
Component size (length×width×height)	2382×1134×30mm
Component weight	33kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm ² /300mm

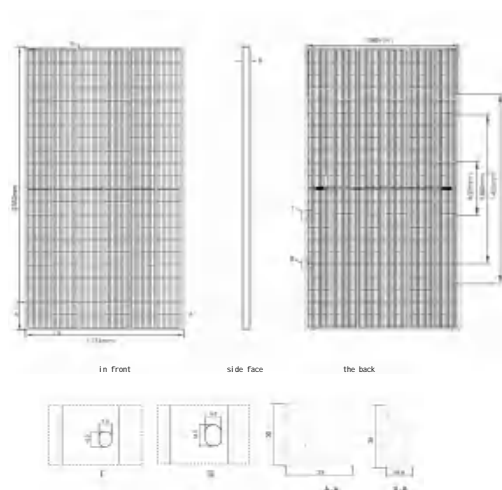
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	35A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3

Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/864piece

组件尺寸(mm)



current-voltage curve

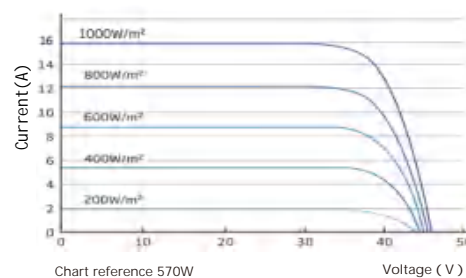


Chart reference 570W

Voltage (V)

Power-voltage curve

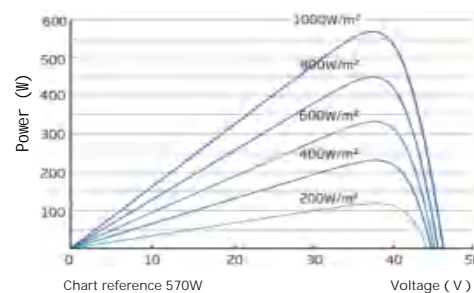


Chart reference 570W

Voltage (V)

*Power test tolerance ±3%

*No further notice upon the change of product specifications

Information column



Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com