shiyu solar

Shi Yu Photoelectric
Product Specifications list

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

shiyu solar

Size Of Product

Component model	Power bracket (w)	Component Size (mm)	Component type
SYD120H	475~495	1903*1134*30	182N single glass
SYD120H	470~490	1903*1134*30	182N double glass
SYD132H	525~545	2094*1134*30	182N single glass
SYD132H	520~540	2094*1134*30	182N double glass
SYD144H	575~595	2278*1134*30	182N single glass
SYD144H	570~590	2278*1134*30	182N double glass
SYE120H	625~645	2172*1303*30	210N single glass
SYE120H	620~640	2172*1303*30	210N double glass
SYE132H	705~725	2384*1303*30	210N single glass
SYE132H	700~720	2384*1303*30	210N double glass
SYD132H	605~625	2382*1134*30	Rectangular N-type single glass
SYD132H	600~620	2382*1134*30	Rectangular N-type double glass

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The M10 series is of the N-type

SYD120H 475~495W

M10 series of N-type TOPCon

Using N-Type TOPCon battery technology, the multi-main gate and half-chip component technology fuse together to make its components have better reliability and lower attenuation.

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.

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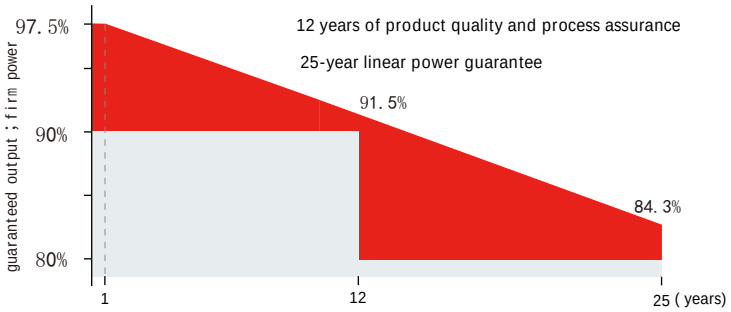
Product guarantee



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Electrical parameters@STC SYD120H 475~495W

Maximum power	Pmax(Wp)	475	480	485	490	495
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	36.96	37.13	37.30	37.47	37.65
Maximum power current	Imp (A)	12.85	12.93	13.00	13.07	13.15
Open circuit voltage	Voc(V)	43.51	43.68	43.85	44.02	44.19
Short circuit current	Isc(A)	13.60	13.65	13.70	13.75	13.82
Component efficiency	(%)	22.01	22.24	22.47	22.71	22.94

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

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	360	363	367	371	375
Maximum power voltage	Vmp(V)	35.58	35.74	35.90	36.07	36.24
Maximum power current	Imp(A)	10.09	10.15	10.20	10.26	10.32
Open circuit voltage	Voc(V)	41.38	41.54	41.71	41.87	42.03
Short circuit current	Isc(A)	10.71	10.74	10.78	10.82	10.88

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 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	4mm²/300mm

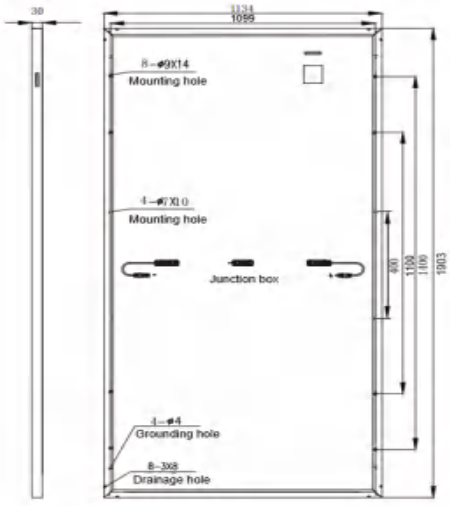
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
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 ℃

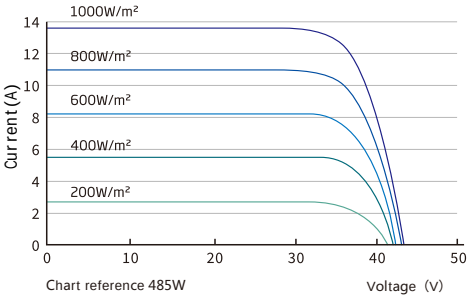
Packaging information

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

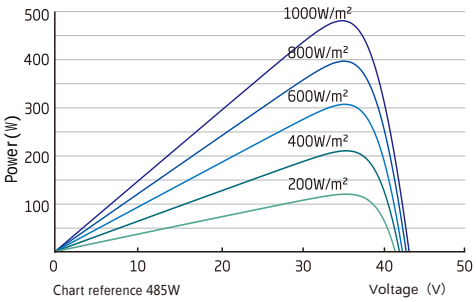
Component size(mm)



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: jsshiyusolar@163.com

shiyu solar

M10 series N-type double glass

SYD120H 470~490W

M10 series N-type TOPCon double glass

Using N-Type TOPCon battery technology, through the multi-main gate and half-chip component technology integrated together, with double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

- 1500V — 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
- Harsh environment — Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
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Product authentication

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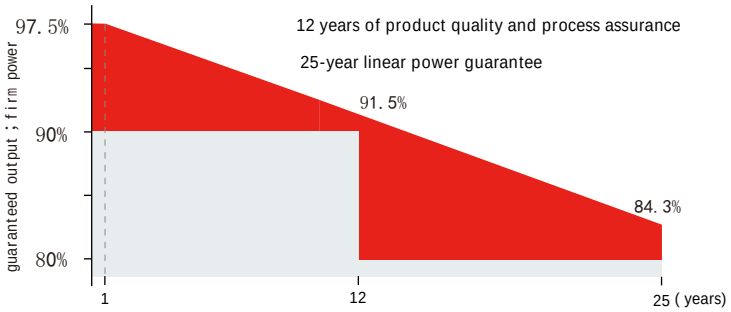
Product guarantee



shiyu solar

Electrical parameters@STC SYD120H 470~490W

Maximum power	Pmax(Wp)	470	475	480	485	490
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	35.03	35.19	35.35	35.51	35.67
Maximum power current	Imp (A)	13.42	13.50	13.58	13.66	13.74
Open circuit voltage	Voc(V)	42.35	42.51	42.68	42.85	43.02
Short circuit current	Isc(A)	14.16	14.24	14.32	14.40	14.48
Component efficiency	(%)	21.78	22.01	22.24	22.47	22.71

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

Back Gain@BSTC(Take 480W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	504	528	552	576	600
Maximum power voltage	VmP(V)	35.35	35.35	35.35	35.35	35.35
Maximum power current	ImP(A)	14.26	14.94	15.62	16.29	16.97
Open circuit voltage	VOC(V)	42.68	42.68	42.68	42.68	42.68
short circuit current	ISC(A)	15.04	15.75	16.47	17.18	17.90

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	1903×1134×30mm
Component weight	25kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

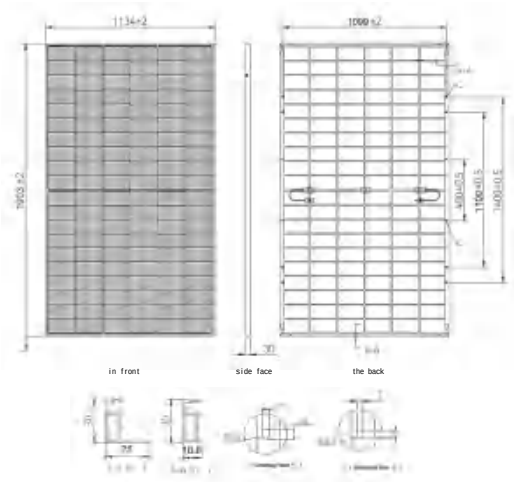
Operation requirement

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 ℃

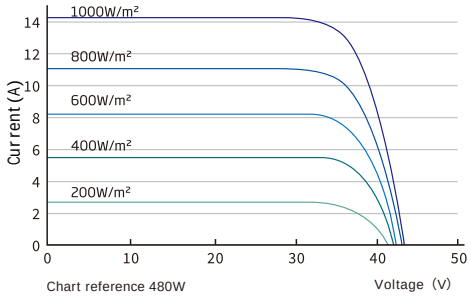
Packaging information

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

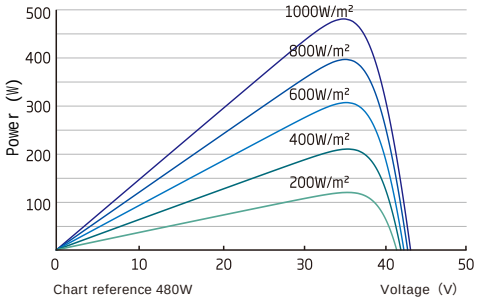
Component size(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
*No further notice upon the change of product specifications

Information column

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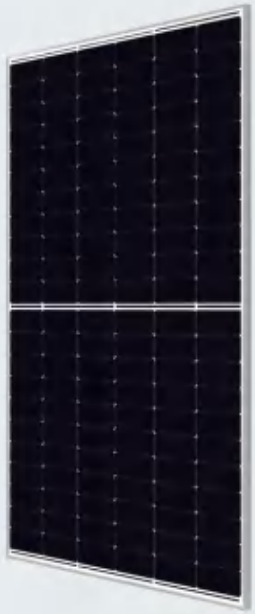
Email address: jsshiyusolar@163.com

shiyu solar

The M10 series is of the N-type

SYD132H 525~545W



M10 series of N-type TOPCon

Using N-Type TOPCon battery technology, the multi-main gate and half-chip component technology fuse together to make its components have better reliability and lower attenuation

Product features

- 1500V — Higher system voltage, effectively reduce the BOS costs
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Management system

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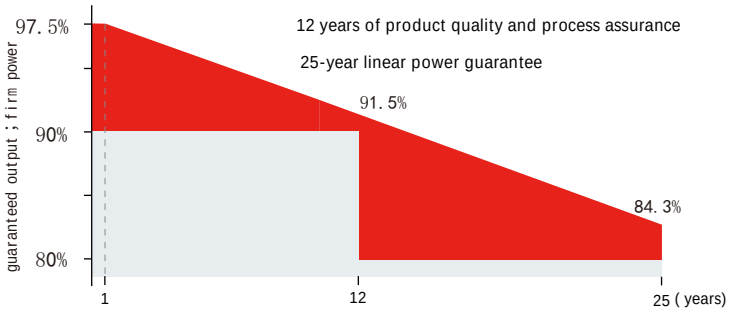
Product guarantee



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Electrical parameters@STC SYD132H 525~545W

Maximum power	Pmax(Wp)	525	530	535	540	545
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.63	40.90	41.22	41.57	41.84
Maximum power current	Imp (A)	12.92	12.96	12.98	13.00	13.03
Open circuit voltage	Voc(V)	46.92	47.12	47.25	47.38	47.52
Short circuit current	Isc(A)	13.53	13.60	13.64	13.68	13.72
Component efficiency	(%)	22.11	22.32	22.53	22.74	22.95

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

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	393	397	401	404	408
Maximum power voltage	Vmp(V)	38.10	38.34	38.64	38.88	39.12
Maximum power current	Imp(A)	10.34	10.37	10.38	10.40	10.43
Open circuit voltage	Voc(V)	45.47	45.67	45.96	46.32	46.69
Short circuit current	Isc(A)	10.82	10.88	10.91	10.94	10.98

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	2094×1134×30mm
Component weight	25kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

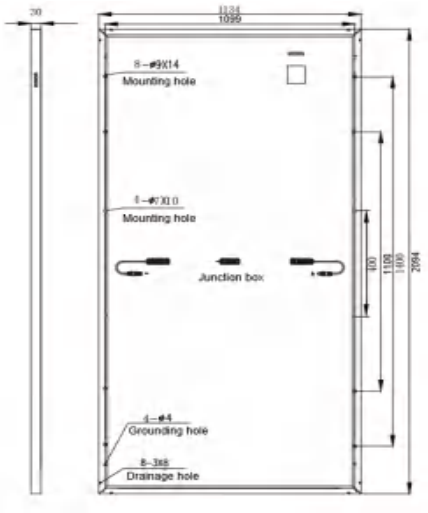
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
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 ℃

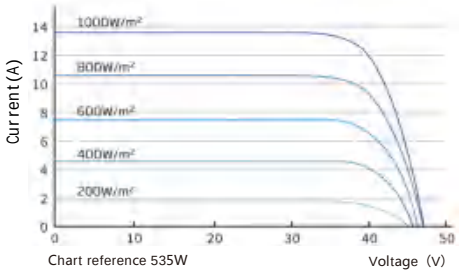
Packaging information

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

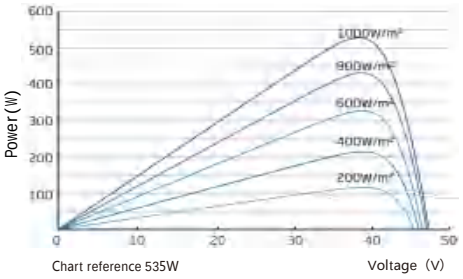
Component size(mm)



current-voltage curve



Power-voltage curve



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M10 series N-type double glass

SYD132H 520~540W

M10 series N-type TOPCon double glass

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Product features

- Higher system voltage, effectively reduce the BOS costs
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- Can withstand harsher conditions

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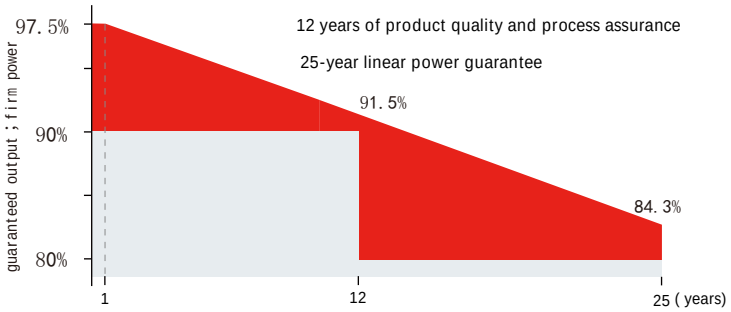
Product guarantee



Electrical parameters@STC SYD132H 520~540W

Maximum power	Pmax(Wp)	520	525	530	535	540
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.28	40.61	40.90	41.22	41.51
Maximum power current	Imp（A)	12.91	12.93	12.96	12.98	13.01
Open circuit voltage	Voc(V)	46.86	46.93	47.13	47.26	47.34
Short circuit current	Isc(A)	13.51	13.54	13.60	13.64	13.68
Component efficiency	(%)	21.90	22.11	22.32	22.53	22.74

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

Back Gain@BSTC (Take 530W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	557	583	610	636	663
Maximum power voltage	Vmp(V)	40.90	40.90	40.90	40.90	40.90
Maximum power current	Imp(A)	13.62	14.25	14.91	15.55	16.21
Open circuit voltage	Voc(V)	47.13	47.13	47.13	47.13	47.13
short circuit current	Isc(A)	14.28	14.96	15.64	16.32	17.00

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	2094×1134×30mm
Component weight	29kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

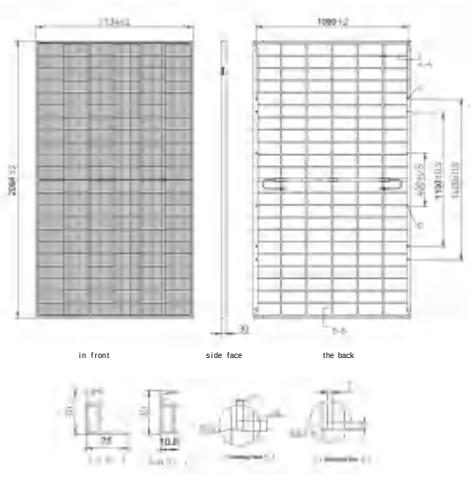
Operation requirement

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 ℃

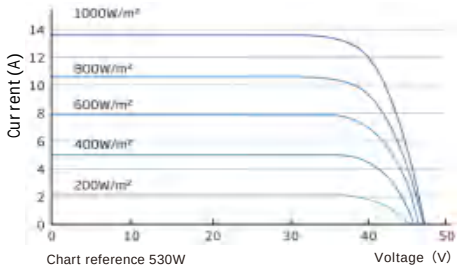
Packaging information

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

组件尺寸(mm)



current-voltage curve



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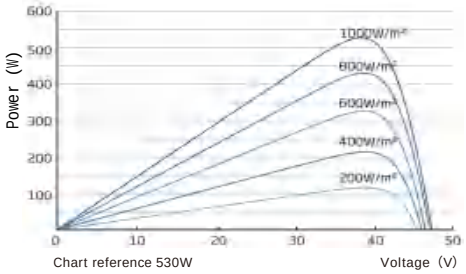

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SYD144H 575~595W

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Product features

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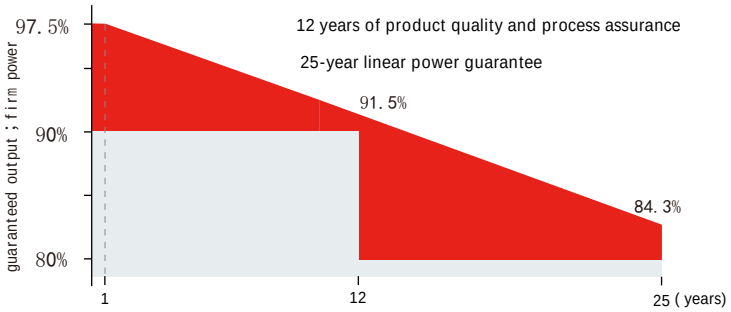


shiyu solar

Electrical parameters@STC SYD144H 575~595W

Maximum power	Pmax(Wp)	575	580	585	590	595
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	44.83	45.03	45.23	45.43	45.60
Maximum power current	Imp (A)	12.83	12.90	12.94	13.00	13.05
Open circuit voltage	Voc(V)	52.60	52.80	53.00	53.20	53.40
Short circuit current	Isc(A)	13.46	13.50	13.54	13.58	13.95
Component efficiency	(%)	22.26	22.45	22.65	22.84	23.03

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

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	435	439	443	447	450
Maximum power voltage	Vmp(V)	43.15	43.34	43.54	43.73	43.89
Maximum power current	Imp(A)	10.08	10.12	10.16	10.21	10.24
Open circuit voltage	Voc(V)	50.03	50.22	50.41	50.60	50.79
Short circuit current	Isc(A)	10.59	10.63	10.66	10.69	10.98

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	2278×1134×30mm
Component weight	22.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

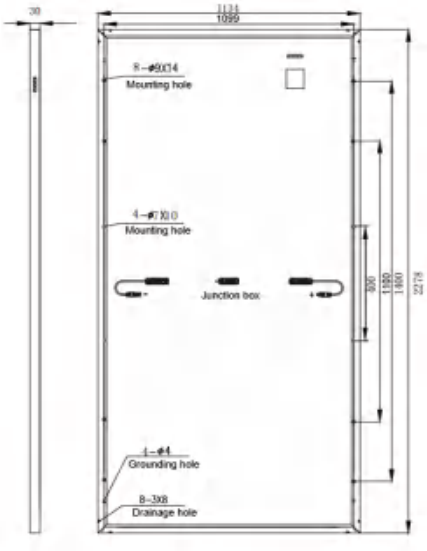
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
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 ℃

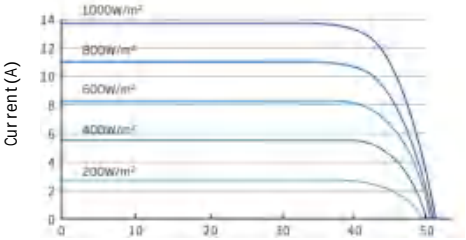
Packaging information

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

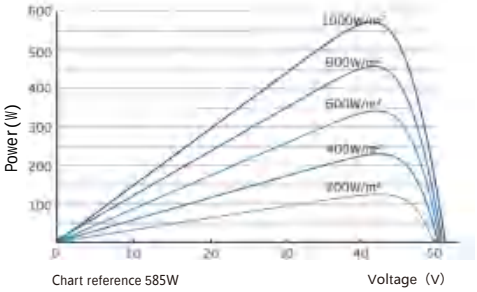
Component size(mm)



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

shiyu solar

M10 series N-type double glass

SYD144H 570~590W

M10 series N-type TOPCon double glass

Using N-Type TOPCon battery technology, through the multi-main gate and half-chip component technology integrated together, with 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

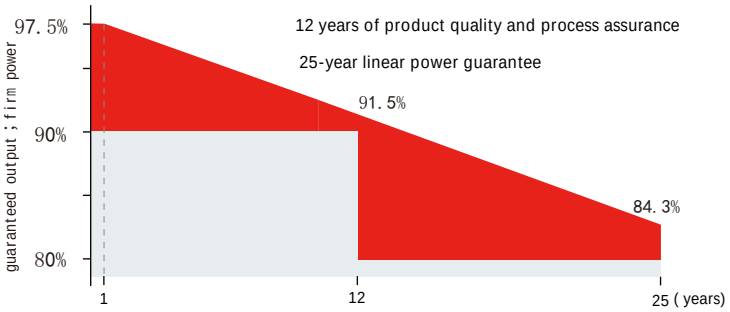
ISO9001:2015
ISO14001:2015
ISO45001:2018

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



shiyu solar

Electrical parameters@STC SYD144H 570~590W

Maximum power	Pmax(Wp)	570	575	580	585	590
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	43.59	43.76	43.93	44.10	44.27
Maximum power current	Imp（A)	13.08	13.14	13.21	13.27	13.33
Open circuit voltage	Voc(V)	51.90	52.10	52.30	52.50	52.70
Short circuit current	Isc(A)	13.75	13.80	13.85	13.90	13.95
Component efficiency	(%)	22.07	22.26	22.45	22.65	22.84

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

Back Gain@BSTC (Take 580W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	609	638	667	696	725
Maximum power voltage	Vmp(V)	43.93	43.93	43.93	43.93	43.93
Maximum power current	Imp(A)	13.86	14.52	15.18	15.84	16.50
Open circuit voltage	Voc(V)	52.30	52.30	52.30	52.30	52.30
short circuit current	Isc(A)	14.54	15.24	15.93	16.62	17.31

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	2278×1134×30mm
Component weight	22.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

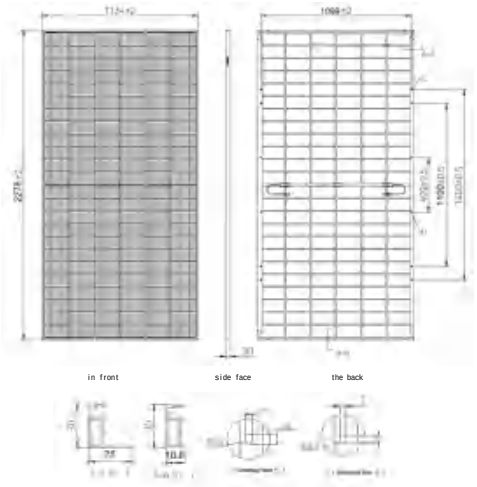
Operation requirement

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 ℃

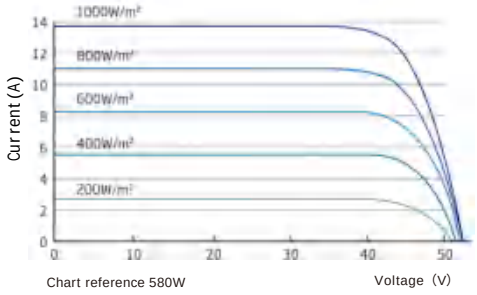
Packaging information

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

组件尺寸(mm)



current-voltage curve



Power-voltage curve

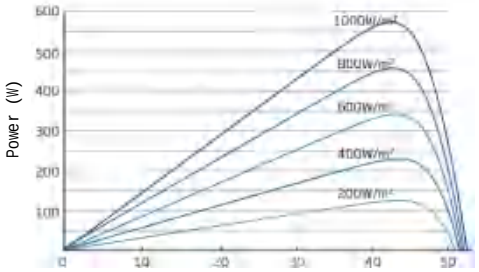


Chart reference 580W Voltage (V)

*Power test tolerance ±3%
*No further notice upon the change of product specifications

Information column

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

Email address: jsshiyusolar@163.com

shiyu solar

G12 series N type

SYE120H 625~645W

The G12 series of N-type TOPCon

Using N-Type TOPCon battery technology, the multi-main gate and half-chip component technology fuse together to make its components have better reliability and lower attenuation.

Product features

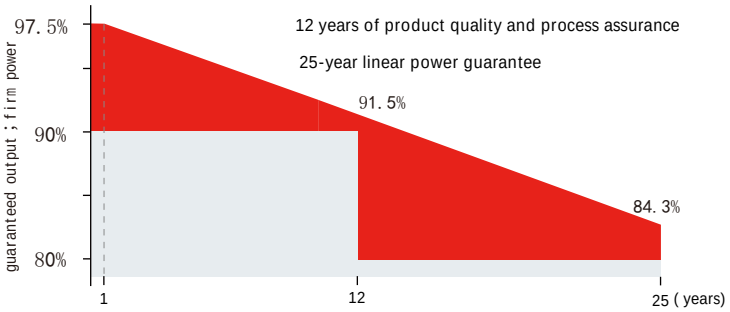
- Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand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

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

Product guarantee



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shiyu solar

Electrical parameters@STC SYE120H 625~645W

Maximum power	Pmax(Wp)	625	630	635	640	645
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	35.02	35.17	35.32	35.47	35.62
Maximum power current	Imp (A)	17.85	17.92	17.98	18.05	18.11
Open circuit voltage	Voc(V)	42.30	42.45	42.60	42.75	42.90
Short circuit current	Isc(A)	18.66	18.74	18.82	18.90	18.98
Component efficiency	(%)	22.08	22.26	22.44	22.61	22.79

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

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	470	474	478	482	486
Maximum power voltage	Vmp(V)	32.74	32.89	33.04	33.19	33.34
Maximum power current	Imp(A)	14.36	14.42	14.47	14.53	14.58
Open circuit voltage	Voc(V)	39.74	39.89	40.04	40.19	40.34
Short circuit current	Isc(A)	15.18	15.25	15.32	15.39	15.46

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon210×105mm
Component size (length×width×height)	2172×1303×30mm
Component weight	30kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

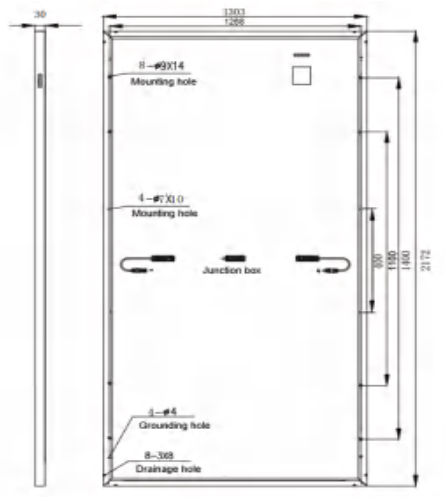
Operation requirement

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 ℃

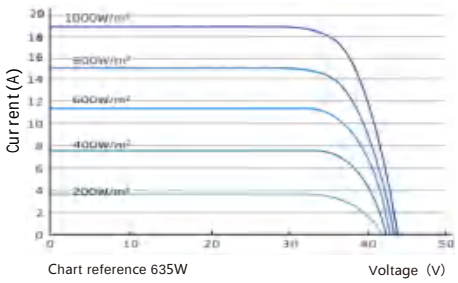
Packaging information

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

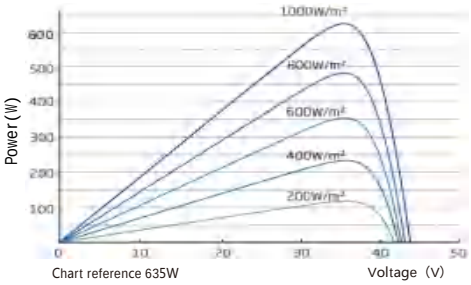
Component size(mm)



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

shiyu solar

G12 series P-type double glass

SYE120H 620~640W

The G12 series of N-type TOPCon

Using N-Type TOPCon battery technology, through the multi-main gate and half-chip component technology integrated together, with double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

- 1500V — 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
- Harsh environment — Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

CE

CQC SOLAR PRODUCT CERTIFICATION — CQC — CHINA QUALITY CERTIFICATION CENTRE

DEKRA certified

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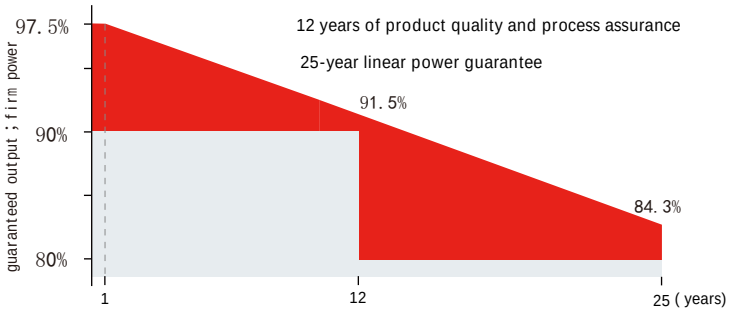
Product guarantee



shiyu solar

Electrical parameters@STC SYE120H 620~640W

Maximum power	Pmax(Wp)	620	625	630	635	640
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	34.87	35.02	35.17	35.32	35.47
Maximum power current	Imp（A)	17.79	17.85	17.92	17.98	18.05
Open circuit voltage	Voc(V)	42.15	42.30	42.45	42.60	42.75
Short circuit current	Isc(A)	18.57	18.66	18.74	18.82	18.90
Component efficiency	(%)	21.91	22.08	22.26	22.44	22.61

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

Back Gain@BSTC (Take 630W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	662	693	725	756	788
Maximum power voltage	VmP(V)	35.17	35.17	35.17	35.17	35.17
Maximum power current	ImP(A)	18.82	19.70	20.61	21.50	22.41
Open circuit voltage	Voc(V)	42.45	42.45	42.45	42.45	42.45
short circuit current	Isc(A)	19.68	20.61	21.55	22.49	23.43

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon210×105mm
Component size (length×width×height)	2172×1303×30mm
Component weight	34kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

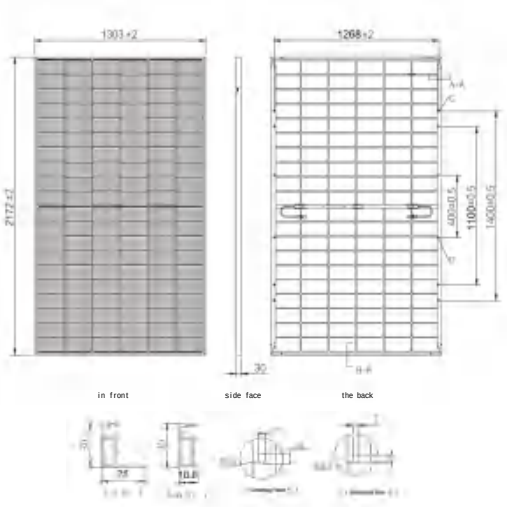
Operation requirement

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 ℃

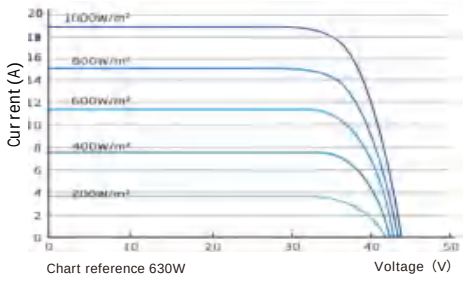
Packaging information

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

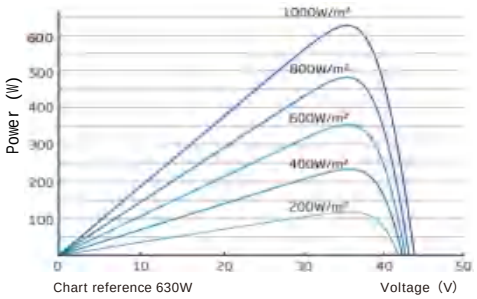
组件尺寸(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
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Information column

Jiangsu Shiyu Photoelectric Technology Co., LTD

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

Email address: jsshiyusolar@163.com

shiyu solar

G12 series N type

SYE132H 705~725W

The G12 series of N-type TOPCon

Using N-Type TOPCon battery technology, the multi-main gate and half-chip component technology fuse together to make its components have better reliability and lower attenuation.

Product features

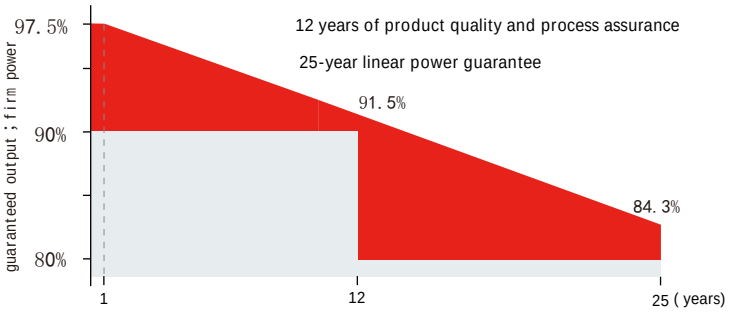
- 1500V — Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Harsh environment — Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

Product guarantee



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shiyu solar

Electrical parameters@STC SYE132H 705~725W

Maximum power	Pmax(Wp)	705	710	715	720	725
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.45	40.62	40.79	40.96	41.13
Maximum power current	Imp (A)	17.43	17.48	17.53	17.58	17.63
Open circuit voltage	Voc(V)	48.75	48.92	49.09	49.27	49.45
Short circuit current	Isc(A)	18.46	18.48	18.50	18.54	18.58
Component efficiency	(%)	22.70	22.86	23.02	23.18	23.34

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

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	530	534	538	541	545
Maximum power voltage	Vmp(V)	34.89	35.09	35.29	35.49	35.69
Maximum power current	Imp(A)	14.07	14.11	14.15	14.19	14.23
Open circuit voltage	Voc(V)	46.31	46.47	46.64	46.81	46.98
Short circuit current	Isc(A)	14.90	14.92	14.94	14.97	15.00

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon210×105mm
Component size (length×width×height)	2384×1303×30mm
Component weight	32kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

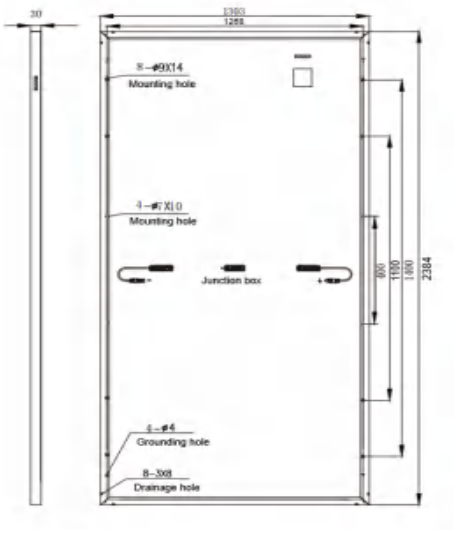
Operation requirement

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 ℃

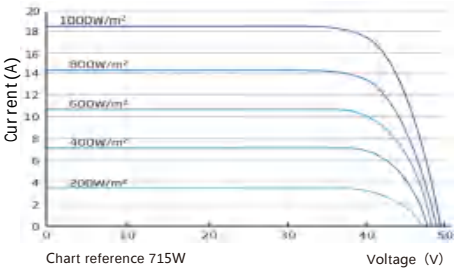
Packaging information

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

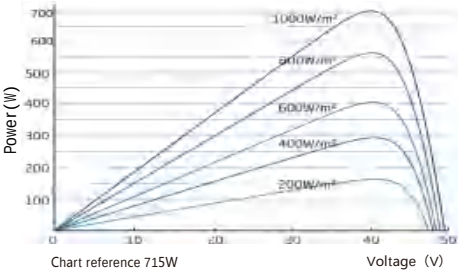
Component size(mm)



current-voltage curve



Power-voltage curve



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Information column

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Email address: jsshiyusolar@163.com

shiyu solar

G12 series P-type double glass

SYE132H 700~720W

The G12 series of N-type TOPCon

Using N-Type TOPCon battery technology, through the multi-main gate and half-chip component technology integrated together, with double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

- 1500V — 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
- Harsh environment — Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

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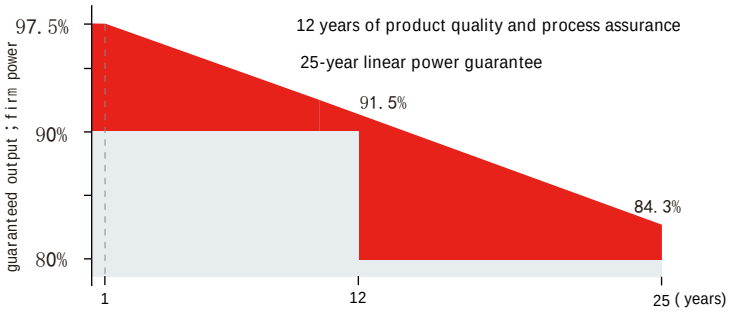
Product guarantee



shiyu solar

Electrical parameters@STC SYE132H 700~720W

Maximum power	Pmax(Wp)	700	705	710	715	720
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.35	40.52	40.69	40.86	41.03
Maximum power current	Imp（A)	17.35	17.40	17.45	17.50	17.55
Open circuit voltage	Voc(V)	48.60	48.77	48.94	49.11	49.28
Short circuit current	Isc(A)	18.35	18.40	18.45	18.50	18.55
Component efficiency	(%)	22.53	22.70	22.86	23.02	23.18

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

Back Gain@BSTC (Take 710W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	746	781	817	852	888
Maximum power voltage	VmP(V)	40.69	40.69	40.69	40.69	40.69
Maximum power current	ImP(A)	18.33	19.19	20.08	20.94	21.82
Open circuit voltage	Voc(V)	48.94	48.94	48.94	48.94	48.94
short circuit current	Isc(A)	19.37	20.30	21.22	22.14	23.06

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon210×105mm
Component size (length×width×height)	2384×1303×30mm
Component weight	37.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

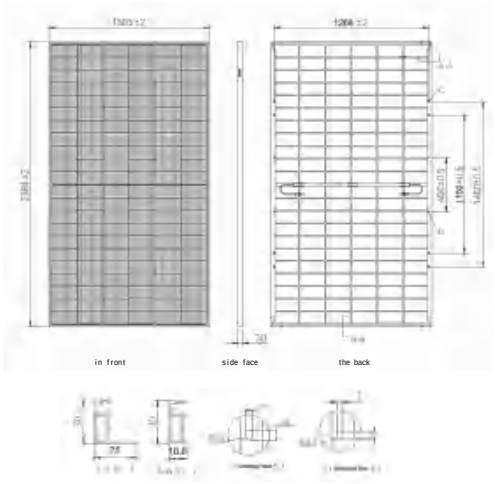
Operation requirement

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 ℃

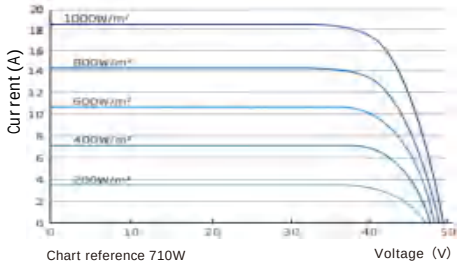
Packaging information

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

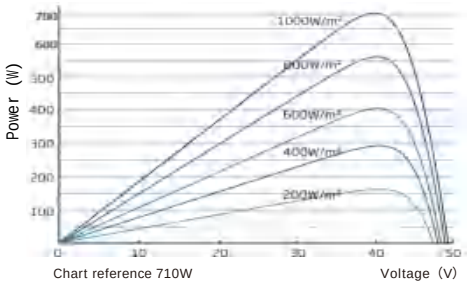
组件尺寸(mm)



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

shiyu solar

Rectangular series N type

SYD132H 605~625W

Rectangular series (182 * 210) type N type TOPCon

Using N-Type TOPCon battery technology, the multi-main gate and half-chip component technology fuse together to make its components have better reliability and lower attenuation

Product features

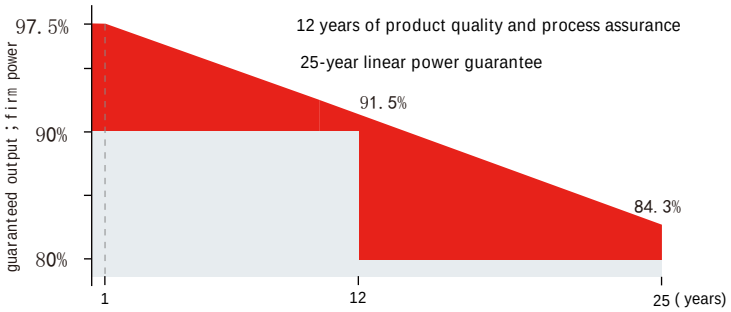
- Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand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

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

Product guarantee



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.

shiyu solar

Electrical parameters@STC SYD132H 605~625W

Maximum power	Pmax(Wp)	605	610	615	620	625
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.65	40.85	41.05	41.25	41.45
Maximum power current	Imp (A)	14.89	14.94	14.99	15.04	15.08
Open circuit voltage	Voc(V)	47.60	47.80	48.00	48.20	48.40
Short circuit current	Isc(A)	15.80	15.85	15.90	15.95	16.00
Component efficiency	(%)	22.40	22.58	22.77	22.95	23.14

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

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	455	459	462	466	470
Maximum power voltage	Vmp(V)	37.86	38.06	38.19	38.39	38.62
Maximum power current	Imp(A)	12.02	12.06	12.10	12.14	12.17
Open circuit voltage	Voc(V)	45.22	45.41	45.60	45.79	45.98
Short circuit current	Isc(A)	12.76	12.80	12.84	12.88	12.92

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon182×105mm
Component size (length×width×height)	2382×1134×30mm
Component weight	28kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

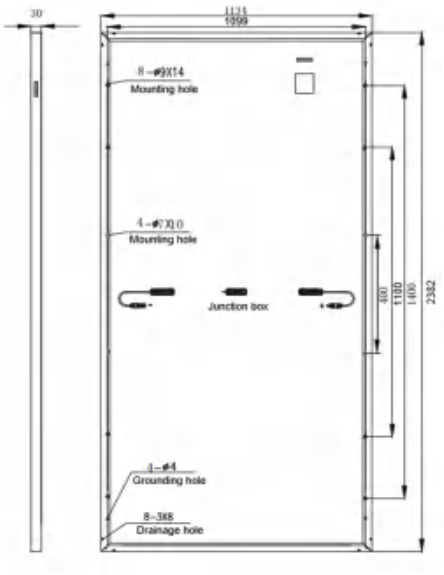
Operation requirement

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 ℃

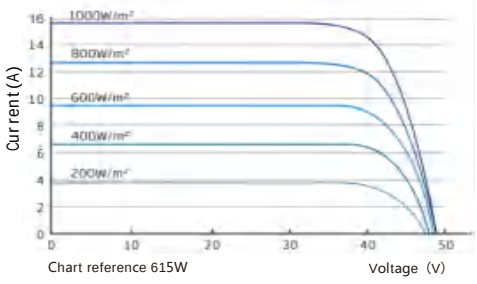
Packaging information

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

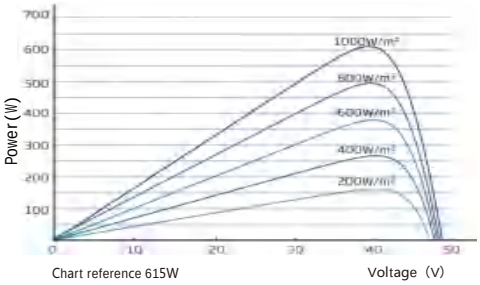
Component size(mm)



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

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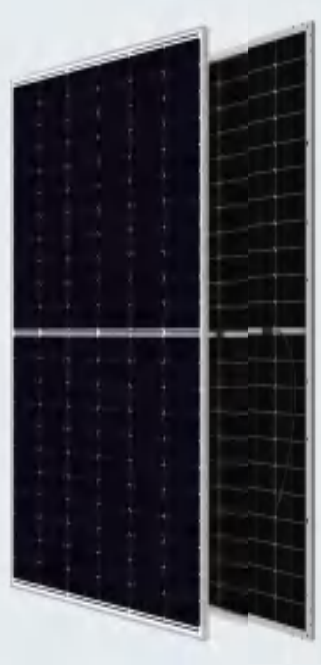
shiyu solar

Rectangular series of N-type double-glass glass

SYD132H 600~620W



Rectangular series (182 * 210) type N type TOPCon

Using N-Type TOPCon battery technology, through the multi-main gate and half-chip component technology integrated together, with double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

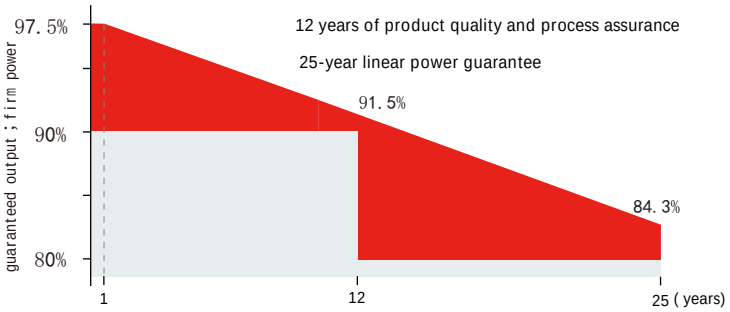
- Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand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

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

Product guarantee



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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.

Electrical parameters@STC SYD132H 600~620W

Maximum power	Pmax(Wp)	600	605	610	615	620
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.75	40.95	41.15	41.35	41.55
Maximum power current	Imp（A)	14.73	14.78	14.83	14.88	14.93
Open circuit voltage	Voc(V)	47.50	47.70	47.90	48.10	48.30
Short circuit current	Isc(A)	15.75	15.80	15.85	15.90	15.95
Component efficiency	(%)	22.21	22.40	22.58	22.77	22.95

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

Back Gain@BSTC (Take 610W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	641	671	702	732	763
Maximum power voltage	VmP(V)	41.15	41.15	41.15	41.15	41.15
Maximum power current	ImP(A)	15.80	16.31	17.06	17.79	18.54
Open circuit voltage	Voc(V)	47.90	47.90	47.90	47.90	47.90
short circuit current	Isc(A)	16.64	17.44	18.23	19.02	19.81

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

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon182×105mm
Component size (length×width×height)	2382×1134×30mm
Component weight	33kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

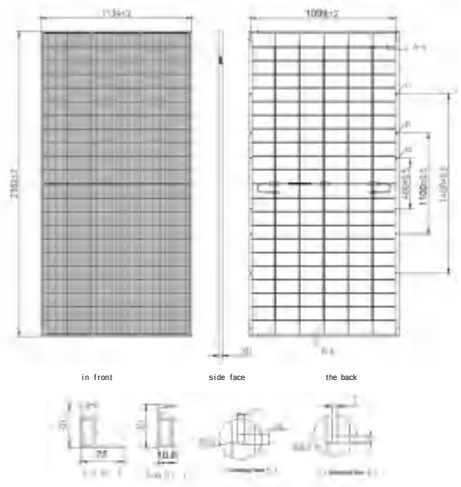
Operation requirement

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 ℃

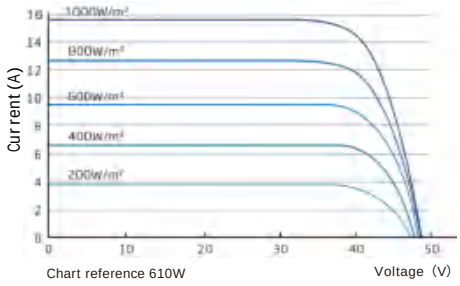
Packaging information

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

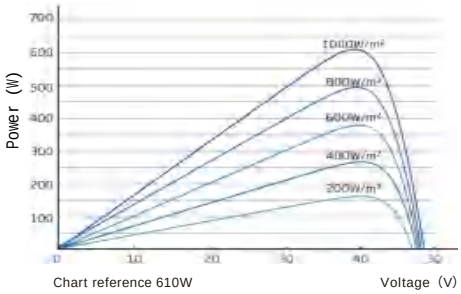
组件尺寸(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
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