



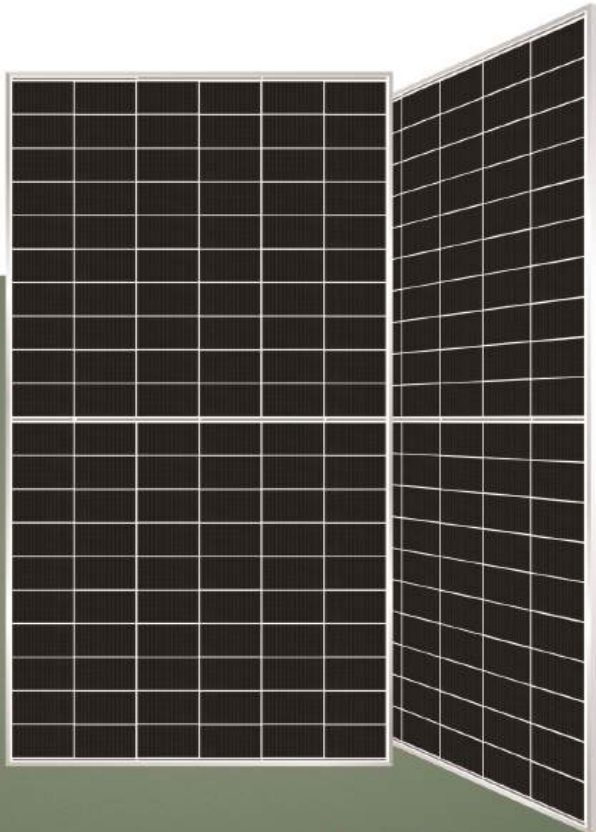
# CG SOLAR Product Manual

A LEADER IN SPREADING CLEAN ENERGY

Power Investment Chuangu Solar Technology(Wuxi) Ltd  
电投传古太阳能科技（无锡）有限公司







## Legend CG-210-120

120-cell Bifacial HJT Half Cell  
Double-glass Solar Module

# 625W~645W



**15** YRS  
Product Warranty

**30** YRS  
Linear Power Warranty



### Higher yield

Only four steps for the core process, to reduce labor, operation and maintenance costs.



### Higher power generation

Double-sided rate up to 95%, the temperature coefficient is  $-0.24\%$  / $^{\circ}\text{C}$ , lower the attenuation rate, no PID and LID effect.



### Higher ROI

Double-sided symmetrical structure reduces the mechanical stress of the silicon wafer, improves the whole wafer ratio, and the low temperature process is conducive to thinning.



### Higher efficiency

HJT cells mainly absorb infrared light, open the ceiling of theoretical conversion efficiency superimposed with perovskite cells.



### Less heat damage

The ambient temperature of the whole process is below  $200^{\circ}\text{C}$ , and the low temperature process reduces heat damage and saves fuel.



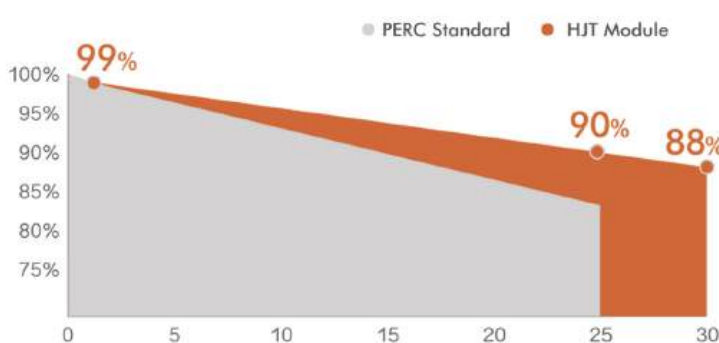
### Lower carbon emissions

Higher conversion efficiency, ultra-thin applications, and low temperature manufacturing processes reduce carbon emissions from single silicon wafers.



### Suitable for Utility project

Lower BOS cost, lower LCOE.



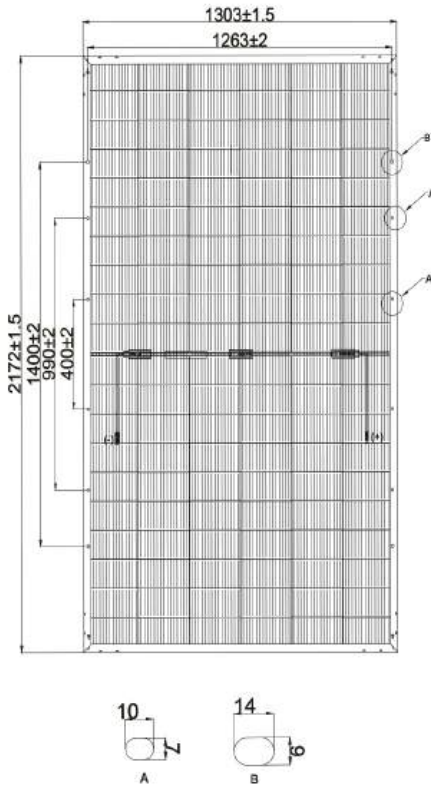
\* Refer to standard warranty for details



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## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

Maximum Power	W	625	630	635	640	645
Maximum System Voltage	V			1,500		
Open Circuit Voltage	V	45.13	45.30	45.48	45.65	45.82
Short Circuit Current	A	17.31	17.37	17.43	17.49	17.55
Optimum Operating Voltage	V	37.86	38.03	38.19	38.35	38.51
Optimum Operating Current	A	16.51	16.57	16.63	16.69	16.75
Conversion Efficiency	%	22.08	22.26	22.44	22.61	22.79
Fuse Current	A			35		
Operating Module Temperature				-40~+85°C		
Power Tolerance	W			0~+5		
Bifaciality	%			95		

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/-3%.

## BSTC\*\*

Maximum Power	W	697	702	708	713	719
Open Circuit Voltage	V	45.13	45.30	45.48	45.65	45.82
Short Circuit Current	A	19.30	19.36	19.43	19.50	19.56
Optimum Operating Voltage	V	37.86	38.03	38.19	38.35	38.51
Optimum Operating Current	A	18.40	18.47	18.54	18.60	18.67

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25°C.

## Temperature Characteristics

Nominal Operating Cell Temp.(NOCT)	44±2°C
Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	0.04%/°C

## Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\*Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

## Mechanical Characteristics

Cell Type	mm	HJT Mono 210×105mm
Cell Connection		120 (6*20)
Module Dimension	mm	2172*1303*35
Weight	kg	35.3
Junction Box		IP68
Output Cable		4mm <sup>2</sup> , 300mm in length, length can be customized/UV resistant
Connectors Type		MC4 original / MC4 compatible
Frame		Anodised aluminum alloy
Front Load	Pa	5400
Rear Load	Pa	2400
Glass Thickness		Double glass, 2.0mm

## Shipping Configurations

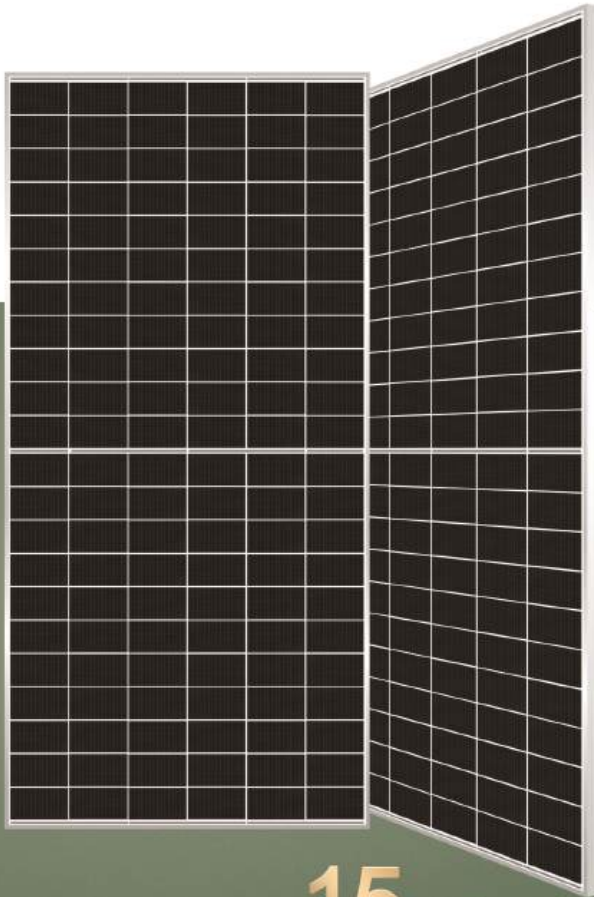
Container Size		40HC
Pallets Per Container	pcs	18
Modules Per Pallet	pcs	31
Modules Per Container		558

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Power Investment Chuangu Solar Technology(Wuxi) Ltd

Xinou Road, Qianqiao Street, Huishan District,  
Wuxi, Jiangsu, China







## Legend CG-210-132

132-cell Bifacial HJT Half Cell  
Double-glass Solar Module

# 695W~720W



**15 YRS**  
Product Warranty

**30 YRS**  
Linear Power Warranty



### Higher yield

Only four steps for the core process, to reduce labor, operation and maintenance costs.



### Higher power generation

Double-sided rate up to 95%, the temperature coefficient is  $-0.24\%/^{\circ}\text{C}$ , lower the attenuation rate, no PID and LID effect.



### Higher ROI

Double-sided symmetrical structure reduces the mechanical stress of the silicon wafer, improves the whole wafer ratio, and the low temperature process is conducive to thinning.



### Higher efficiency

HJT cells mainly absorb infrared light, open the ceiling of theoretical conversion efficiency superimposed with perovskite cells.



### Less heat damage

The ambient temperature of the whole process is below  $200^{\circ}\text{C}$ , and the low temperature process reduces heat damage and saves fuel.



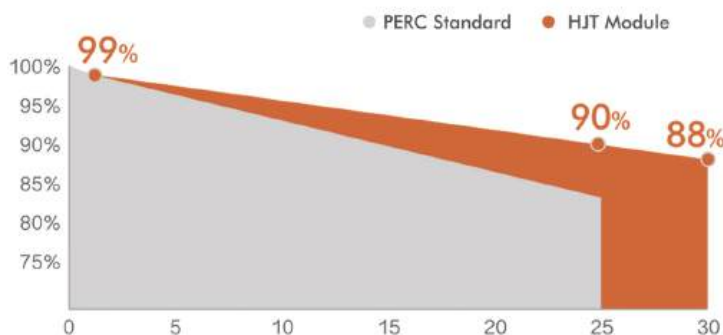
### Lower carbon emissions

Higher conversion efficiency, ultra-thin applications, and low temperature manufacturing processes reduce carbon emissions from single silicon wafers.



### Suitable for Utility project

Lower BOS cost, lower LCOE.



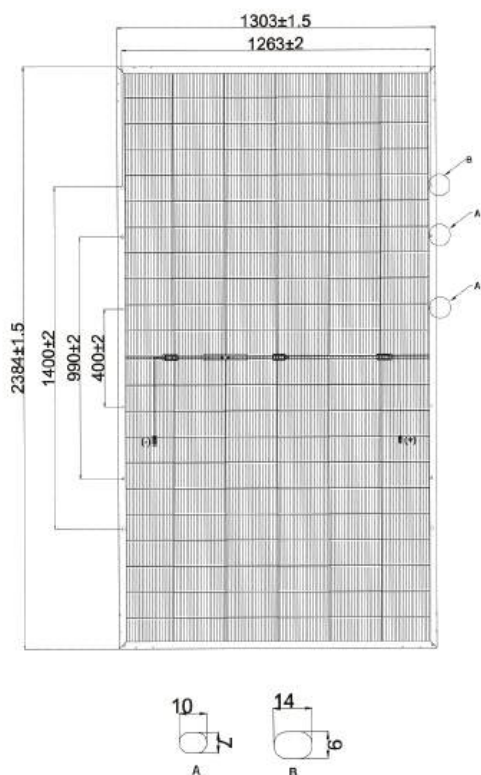
\* Refer to standard warranty for details



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## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

Maximum Power	W	695	700	705	710	720
Maximum System Voltage	V			1,500		
Open Circuit Voltage	V	49.05	49.14	49.23	49.32	49.41
Short Circuit Current	A	17.55	17.63	17.71	17.79	17.89
Optimum Operating Voltage	V	43.32	43.39	43.46	43.53	43.60
Optimum Operating Current	A	16.04	16.13	16.22	16.31	16.40
Conversion Efficiency	%	22.37	22.53	22.70	22.86	23.02
Fuse Current	A			35		
Operating Module Temperature				-40~+85°C		
Power Tolerance	W			0~+5		
Bifaciality	%			95		

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/-3%.

## BSTC\*\*

Maximum Power	W	775	780	786	791	797
Open Circuit Voltage	V	49.05	49.14	49.23	49.32	49.41
Short Circuit Current	A	19.56	19.65	19.74	19.83	19.94
Optimum Operating Voltage	V	43.32	43.39	43.46	43.53	43.60
Optimum Operating Current	A	17.88	17.98	18.08	18.18	18.28

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25°C.

## Temperature Characteristics

Nominal Operating Cell Temp.(NOCT)	44±2°C
Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.04%/°C

## Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\*Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

## Mechanical Characteristics

Cell Type	mm	HJT Mono 210×105mm
Cell Connection		132 (6*22)
Module Dimension	mm	2384*1303*35
Weight	kg	38.7
Junction Box		IP68
Output Cable		4mm <sup>2</sup> , 300mm in length, length can be customized/UV resistant
Connectors Type		MC4 original / MC4 compatible
Frame		Anodised aluminum alloy
Front Load	Pa	5400
Rear Load	Pa	2400
Glass Thickness		Double glass, 2.0mm

## Shipping Configurations

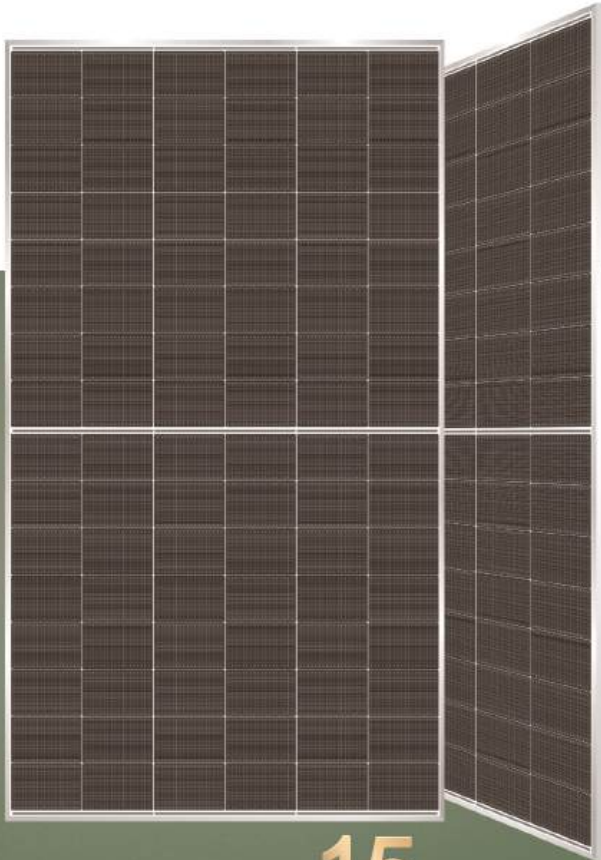
Container Size		40HC
Pallets Per Container	pcs	18
Modules Per Pallet	pcs	31
Modules Per Container		558

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Xinou Road, Qianqiao Street, Huishan District,  
Wuxi, Jiangsu, China







## Legend CG-210R-96

96-cell Bifacial HJT Half Cell  
Double-glass Solar Module

# 440W~460W



**15 YRS**  
Product Warranty

**30 YRS**  
Linear Power Warranty



### Higher yield

Only four steps for the core process, to reduce labor, operation and maintenance costs.



### Higher power generation

Double-sided rate up to 95%, the temperature coefficient is  $-0.24\% / ^\circ\text{C}$ , lower the attenuation rate, no PID and LID effect.



### Higher ROI

Double-sided symmetrical structure reduces the mechanical stress of the silicon wafer, improves the whole wafer ratio, and the low temperature process is conducive to thinning.



### Higher efficiency

HJT cells mainly absorb infrared light, open the ceiling of theoretical conversion efficiency superimposed with perovskite cells.



### Less heat damage

The ambient temperature of the whole process is below  $200^\circ\text{C}$ , and the low temperature process reduces heat damage and saves fuel.

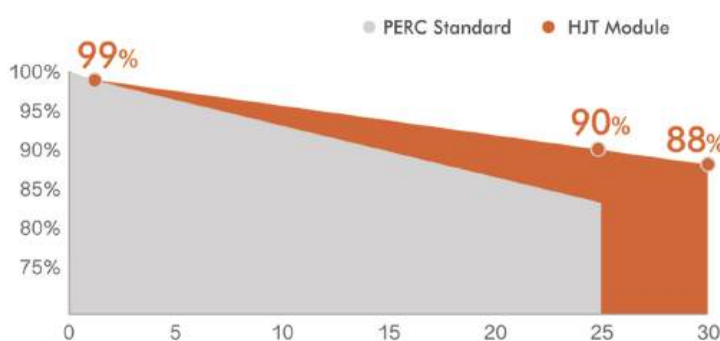


### Lower carbon emissions

Higher conversion efficiency, ultra-thin applications, and low temperature manufacturing processes reduce carbon emissions from single silicon wafers.



### Suitable for rooftop photovoltaic systems



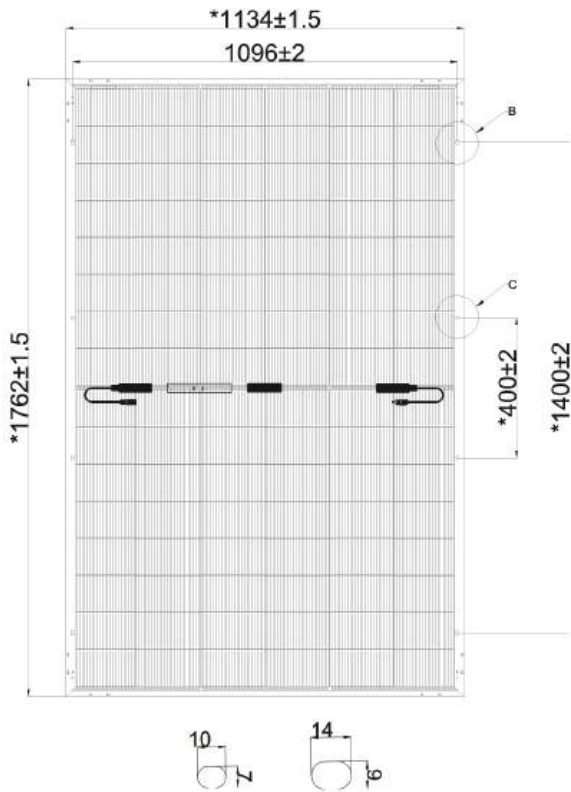
\* Refer to standard warranty for details



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## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

Maximum Power	W	440	445	450	455	460
Maximum System Voltage	V	1,500				
Open Circuit Voltage	V	36.72	36.81	36.90	36.99	37.11
Short Circuit Current	A	14.98	15.07	15.16	15.25	15.35
Optimum Operating Voltage	V	30.43	30.49	30.55	30.61	30.67
Optimum Operating Current	A	14.46	14.53	14.73	14.86	15.00
Conversion Efficiency	%	22.02	22.27	22.52	22.77	23.02
Fuse Current	A	30				
Operating Module Temperature		-40~+85°C				
Power Tolerance	W	0~+5				
Bifaciality		95				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/-3%.

## BSTC\*\*

Maximum Power	W	490	496	502	507	513
Open Circuit Voltage	V	36.72	36.81	36.90	36.99	37.11
Short Circuit Current	A	16.70	16.80	16.90	17.00	17.11
Optimum Operating Voltage	V	30.43	30.49	30.55	30.61	30.67
Optimum Operating Current	A	16.12	16.20	16.42	16.57	16.72

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25°C.

## Temperature Characteristics

Nominal Operating Cell Temp.(NOCT)	44±2°C
Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.04%/°C

## Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\*Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

## Mechanical Characteristics

Cell Type	mm	HJT Mono 182×105mm
Cell Connection		96 (6*16)
Module Dimension	mm	1762*1134*30
Weight	kg	23
Junction Box		IP68
Output Cable		4mm <sup>2</sup> , 300mm in length, length can be customized/UV resistant
Connectors Type		MC4 original / MC4 compatible
Frame		Anodised aluminum alloy
Front Load	Pa	5400
Rear Load	Pa	2400
Glass Thickness		Double glass, 1.6mm

## Shipping Configurations

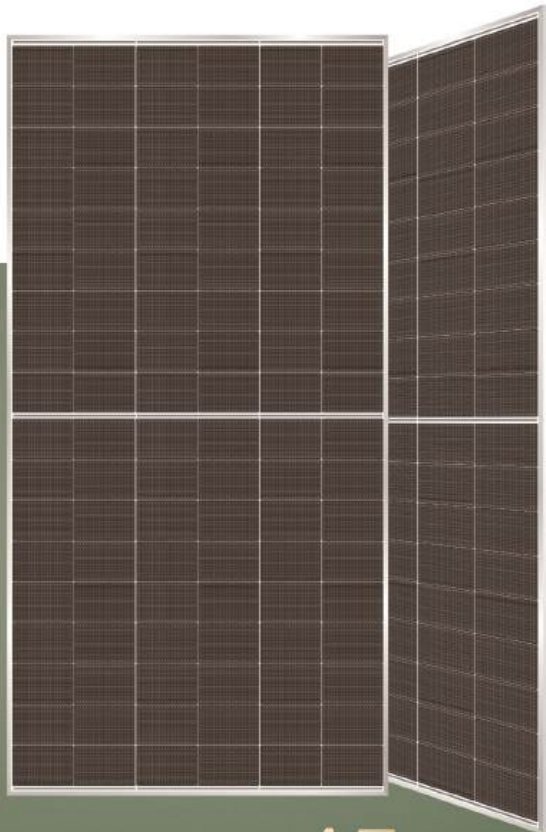
Container Size		40HC
Pallets Per Container	pcs	26
Modules Per Pallet	pcs	36
Modules Per Container		936

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## Legend CG-210R-108

108-cell Bifacial HJT Half Cell  
Double-glass Solar Module

# 500W~520W



**15 YRS**  
Product Warranty

**30 YRS**  
Linear Power Warranty



### Higher yield

Only four steps for the core process, to reduce labor, operation and maintenance costs.



### Higher power generation

Double-sided rate up to 95%, the temperature coefficient is  $-0.24\%/^{\circ}\text{C}$ , lower the attenuation rate, no PID and LID effect.



### Higher ROI

Double-sided symmetrical structure reduces the mechanical stress of the silicon wafer, improves the whole wafer ratio, and the low temperature process is conducive to thinning.



### Higher efficiency

HJT cells mainly absorb infrared light, open the ceiling of theoretical conversion efficiency superimposed with perovskite cells.



### Less heat damage

The ambient temperature of the whole process is below  $200^{\circ}\text{C}$ , and the low temperature process reduces heat damage and saves fuel.

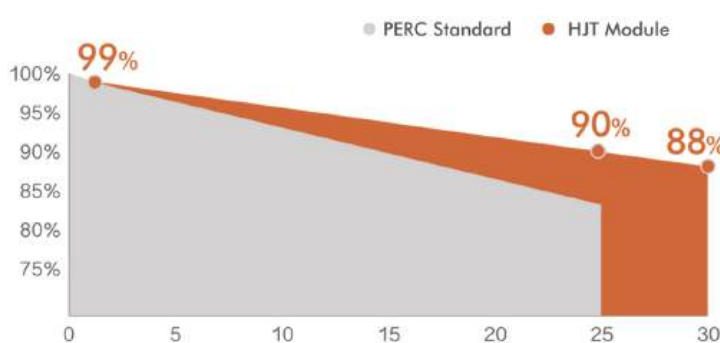


### Lower carbon emissions

Higher conversion efficiency, ultra-thin applications, and low temperature manufacturing processes reduce carbon emissions from single silicon wafers.



### Suitable for rooftop photovoltaic systems



\* Refer to standard warranty for details

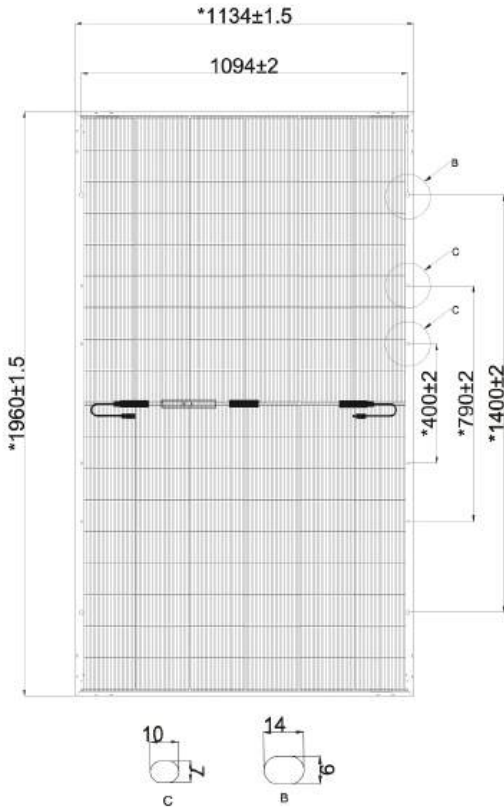


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## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

Maximum Power	W	500	505	510	515	520
Maximum System Voltage	V	1,500				
Open Circuit Voltage	V	41.35	41.44	41.53	41.63	41.72
Short Circuit Current	A	15.08	15.17	15.26	15.35	15.44
Optimum Operating Voltage	V	34.25	34.31	34.37	34.43	34.49
Optimum Operating Current	A	14.60	14.72	14.84	14.96	15.08
Conversion Efficiency	%	22.50	22.72	22.95	23.17	23.40
Fuse Current	A	30				
Operating Module Temperature		-40~+85°C				
Power Tolerance	W	0~+5				
Bifaciality	%	95				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/-3%.

## BSTC\*\*

Maximum Power	W	557	563	569	574	580
Open Circuit Voltage	V	41.35	41.44	41.53	41.63	41.72
Short Circuit Current	A	16.81	16.91	17.01	17.11	17.21
Optimum Operating Voltage	V	34.25	34.31	34.37	34.43	34.49
Optimum Operating Current	A	16.27	16.41	16.54	16.67	16.81

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25°C

## Temperature Characteristics

Nominal Operating Cell Temp.(NOCT)	44±2°C
Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.04%/°C

## Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\*Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

## Mechanical Characteristics

Cell Type	mm	HJT Mono 182×105mm
Cell Connection		108 (6*18)
Module Dimension	mm	1960*1134*30
Weight	kg	27.6
Junction Box		IP68
Output Cable		4mm <sup>2</sup> , 300mm in length, length can be customized/UV resistant
Connectors Type		MC4 original / MC4 compatible
Frame		Anodised aluminum alloy
Front Load	Pa	5400
Rear Load	Pa	2400
Glass Thickness		Double glass, 2.0mm

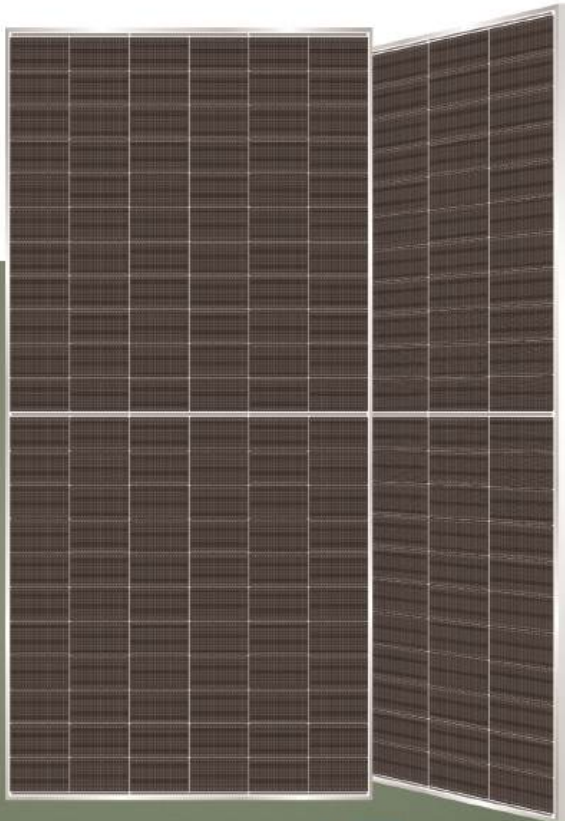
## Shipping Configurations

Container Size		40HC
Pallets Per Container	pcs	22
Modules Per Pallet	pcs	36
Modules Per Container		792

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## Legend CG-210R-132

132-cell Bifacial HJT Half Cell  
Double-glass Solar Module

# 605W~625W



**15 YRS**  
Product Warranty

**30 YRS**  
Linear Power Warranty



### Higher yield

Only four steps for the core process, to reduce labor, operation and maintenance costs.



### Higher power generation

Double-sided rate up to 95%, the temperature coefficient is  $-0.24\%$  / $^{\circ}\text{C}$ , lower the attenuation rate, no PID and LID effect.



### Higher ROI

Double-sided symmetrical structure reduces the mechanical stress of the silicon wafer, improves the whole wafer ratio, and the low temperature process is conducive to thinning.



### Higher efficiency

HJT cells mainly absorb infrared light, open the ceiling of theoretical conversion efficiency superimposed with perovskite cells.



### Less heat damage

The ambient temperature of the whole process is below  $200^{\circ}\text{C}$ , and the low temperature process reduces heat damage and saves fuel.

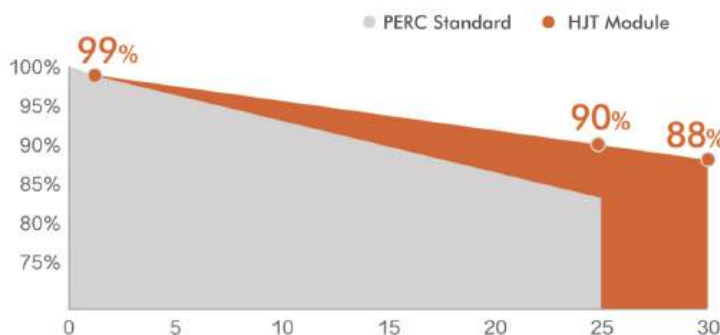


### Lower carbon emissions

Higher conversion efficiency, ultra-thin applications, and low temperature manufacturing processes reduce carbon emissions from single silicon wafers.



### Suitable for centralized ground power station projects



\* Refer to standard warranty for details

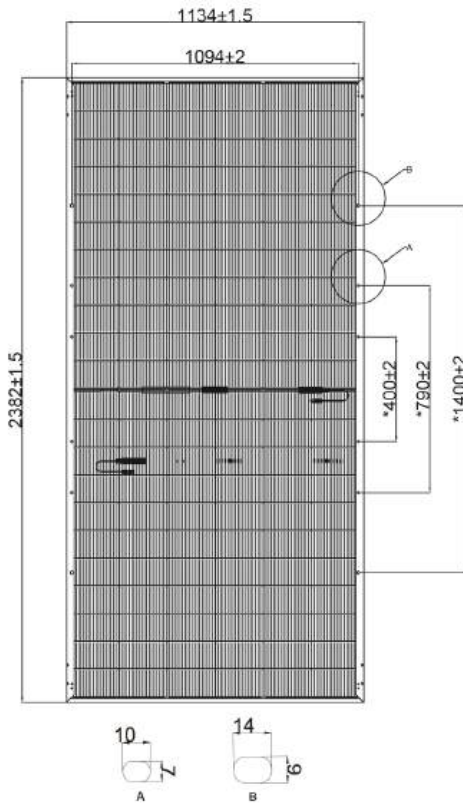


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## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

Maximum Power	W	605	610	615	620	625
Maximum System Voltage	V	1,500				
Open Circuit Voltage	V	48.15	48.24	48.33	48.42	48.51
Short Circuit Current	A	15.59	15.68	15.77	15.86	15.95
Optimum Operating Voltage	V	40.25	40.33	40.41	40.49	40.57
Optimum Operating Current	A	15.03	15.13	15.22	15.31	15.41
Conversion Efficiency	%	22.38	22.56	22.75	22.93	23.12
Fuse Current	A	30				
Operating Module Temperature		-40~+85°C				
Power Tolerance	W	0~+5				
Bifaciality		95				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/-3%.

## BSTC\*\*

Maximum Power	W	674	680	686	691	697
Open Circuit Voltage	V	48.15	48.24	48.33	48.42	48.51
Short Circuit Current	A	17.38	17.48	17.58	17.68	17.78
Optimum Operating Voltage	V	40.25	40.33	40.41	40.49	40.57
Optimum Operating Current	A	16.76	16.86	16.97	17.07	17.17

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25°C

## Temperature Characteristics

Nominal Operating Cell Temp.(NOCT)	44±2°C
Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.04%/°C

## Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\*Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

## Mechanical Characteristics

Cell Type	mm	HJT Mono 182×105mm
Cell Connection		132 (6*22)
Module Dimension	mm	2382*1134*30
Weight	kg	33.6
Junction Box		IP68
Output Cable		4mm <sup>2</sup> , 300mm in length, length can be customized/UV resistant
Connectors Type		MC4 original / MC4 compatible
Frame		Anodised aluminum alloy
Front Load	Pa	5400
Rear Load	Pa	2400
Glass Thickness		Double glass, 2.0mm

## Shipping Configurations

Container Size		40HC
Pallets Per Container	pcs	20
Modules Per Pallet	pcs	36
Modules Per Container		720

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