



PRODUCT SPECIFICATIONS

P-PERC



SINGLE CRYSTAL GLASS 355-380W

REESUN120H-166M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 20.86%)
-  12-year product quality warranty, 25-year linear output power warranty

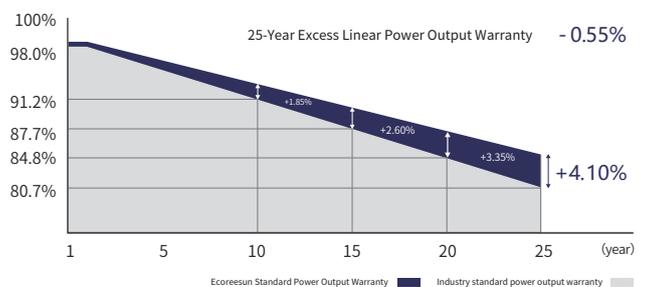
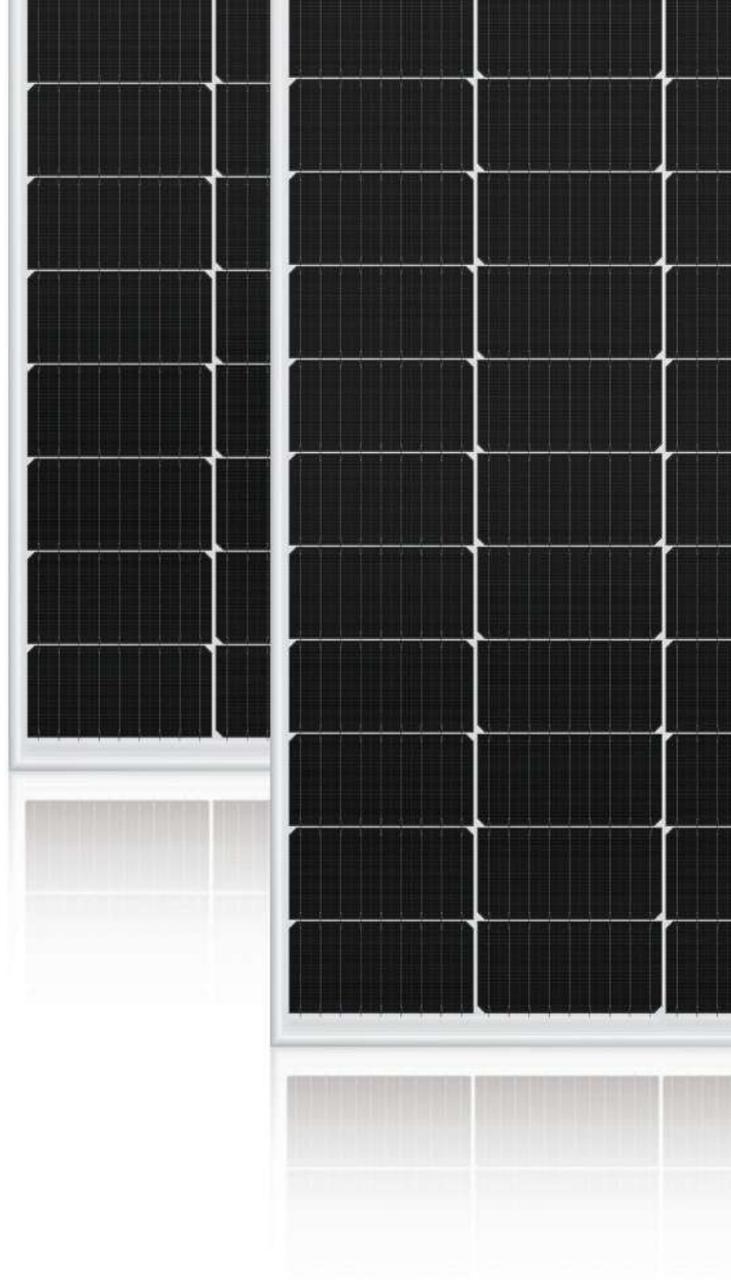
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



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REESUN120H-166M355-380W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

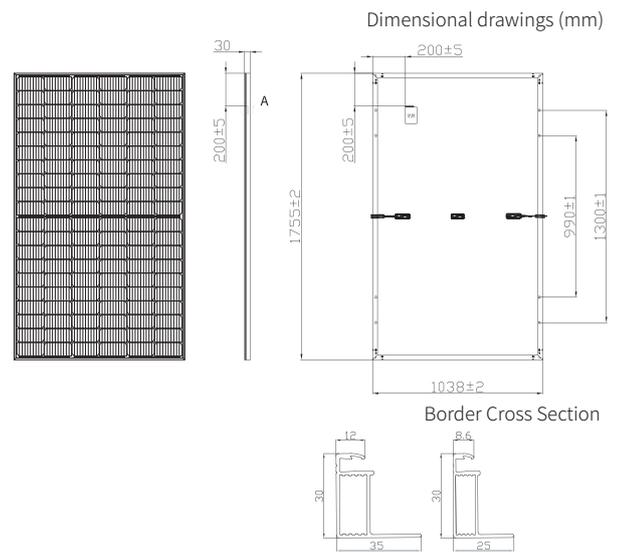
Component model	355W		360W		365W		370W		375W		380W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	355	256	360	268	365	272	370	276	375	280	380	283
Maximum power voltage [Vmp/V]	33.80	31.50	34.00	31.70	34.20	31.80	34.40	32.00	34.60	32.20	34.80	32.40
Maximum power current [Imp/A]	10.51	8.43	10.59	8.49	10.68	8.56	10.76	8.63	10.84	8.69	10.92	8.76
Open circuit voltage [Voc/V]	40.30	37.80	40.50	38.00	40.70	38.20	40.90	38.30	41.10	38.50	41.30	38.70
Short circuit current [Isc/A]	11.25	9.10	11.35	9.17	11.43	9.25	11.52	9.32	11.60	9.38	11.69	9.45
Component efficiency [%]	19.49		19.76		20.04		20.31		20.59		20.86	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C

Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	120(6×20)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	21kg±3%
Size	1755×1038×30mm
Packing	36piece/Tray 936piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	20A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class C



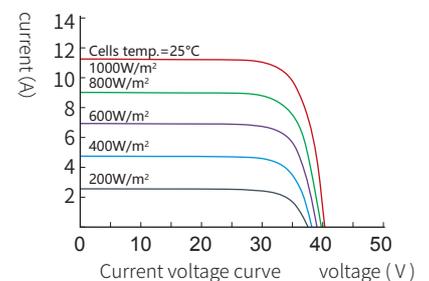
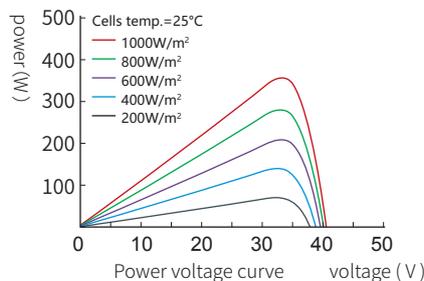
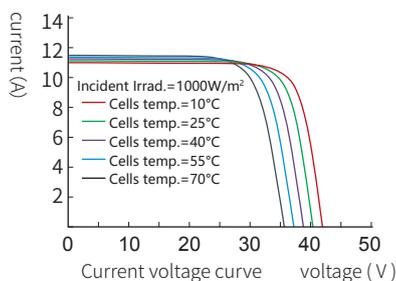
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN120H-166M-360W)





SINGLE CRYSTAL GLASS 435-460W

REESUN144H-166M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency(up to 21.16%)
-  12-year product quality warranty, 25-year linear output power warranty

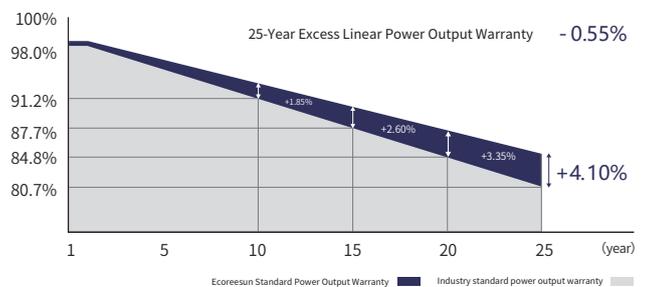
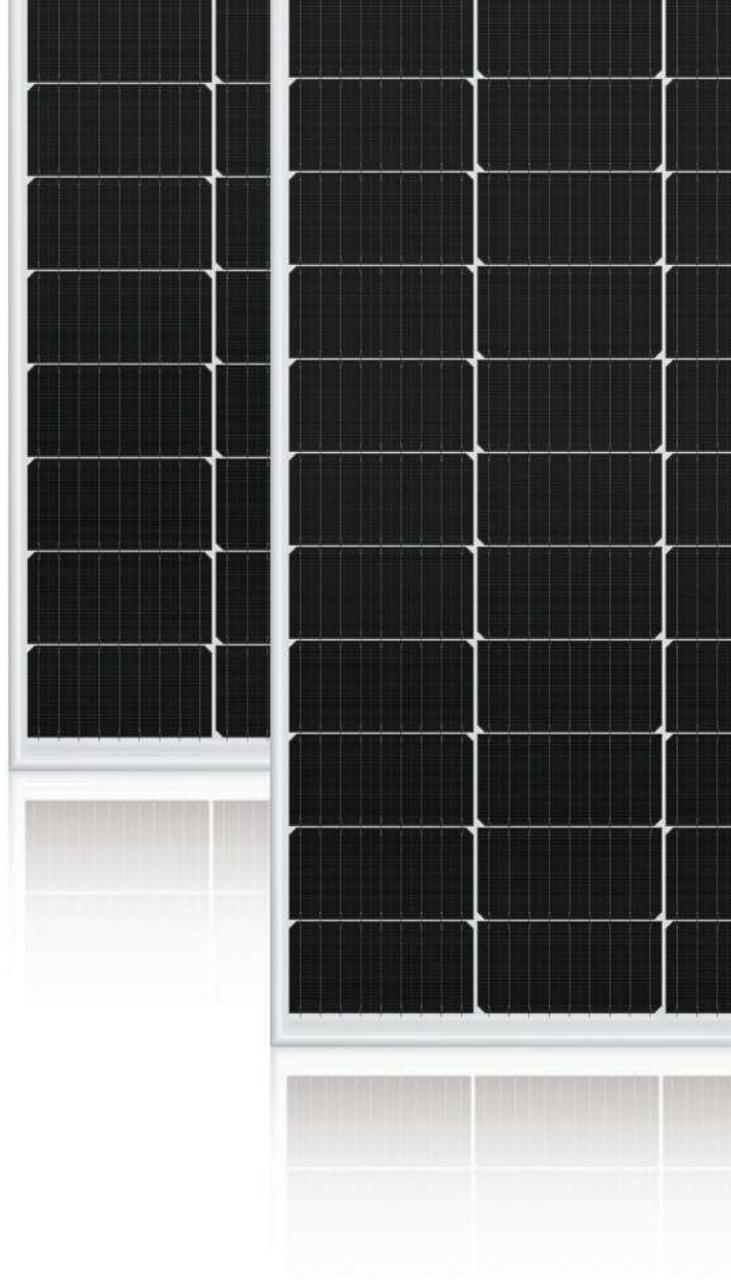
Comprehensive Product And System Certification

IEC 61215, IEC 61730

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REESUN144H-166M435-460W

Electrical Performance Parameters

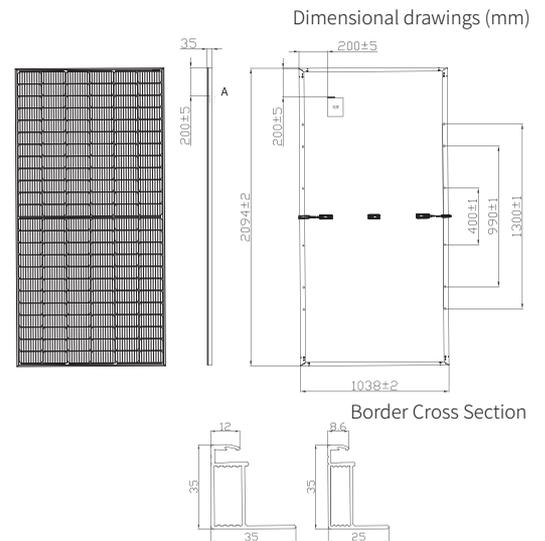
Maximum power test tolerance : $\pm 3\%$

Component model	435W		440W		445W		450W		455W		460W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	435	324	440	329	445	325	450	335	455	339	460	345
Maximum power voltage [Vmp/V]	40.90	38.10	41.10	38.30	41.30	38.50	41.50	38.60	41.70	38.80	41.90	39.25
Maximum power current [Imp/A]	10.64	8.53	10.71	8.59	10.78	8.46	10.85	8.70	10.92	8.75	10.99	8.79
Open circuit voltage [Voc/V]	48.70	45.70	48.90	45.80	49.10	46.00	49.30	46.20	49.50	46.40	49.70	46.66
Short circuit current [Isc/A]	11.39	9.21	11.46	9.27	11.53	9.33	11.60	9.38	11.66	9.43	11.73	9.48
Component efficiency [%]	20.01		20.24		20.47		20.70		20.93		21.16	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C
Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	144(6×24)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	25kg \pm 3%
Size	2094×1038×35mm
Packing	31piece/Tray 682piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	$\pm 4\%/\pm 3\%$
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	20A
Nominal operating battery temperature	45 \pm 2°C
Safety level	Class II
Fire rating	Class C



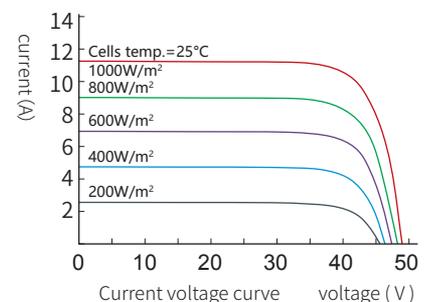
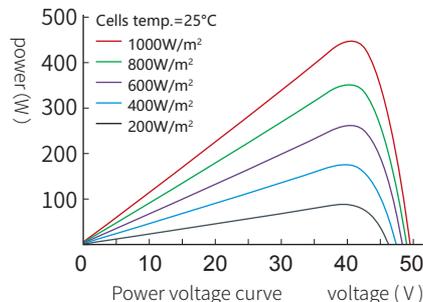
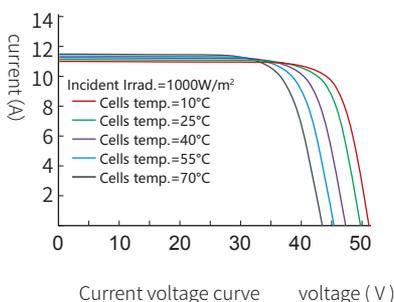
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN144H-166M-450W)





SINGLE CRYSTAL GLASS 395-420W

REESUN108H-182M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.51%)
-  12-year product quality warranty, 25-year linear output power warranty

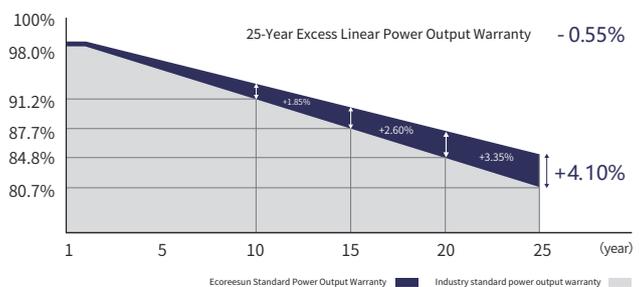
Comprehensive Product And System Certification

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REESUN108H-182M395-420W

Electrical Performance Parameters

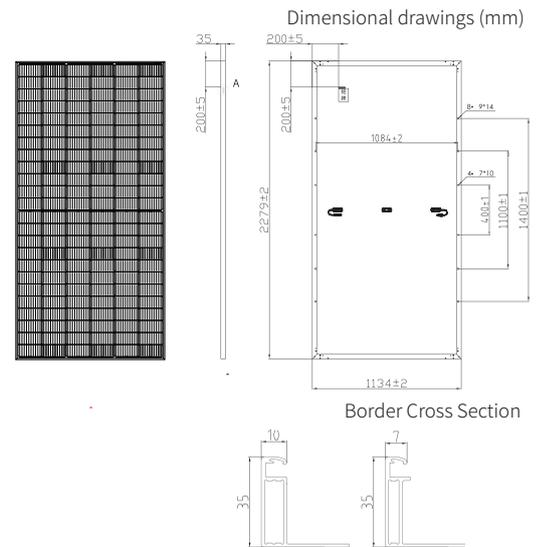
Maximum power test tolerance : $\pm 3\%$

Component model	395W		400W		405W		410W		415W		420W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	395	298	400	302	405	306	410	310	415	314	420	318
Maximum power voltage [Vmp/V]	30.84	34.75	31.02	34.88	31.23	35.12	31.45	35.23	31.64	35.37	31.82	35.50
Maximum power current [Imp/A]	12.81	29.08	12.90	29.26	12.97	29.47	13.04	29.72	13.12	29.89	13.20	30.09
Open circuit voltage [Voc/V]	36.98	10.96	37.07	11.03	37.19	11.10	37.32	11.16	37.45	11.22	37.58	11.29
Short circuit current [Isc/A]	13.70	10.25	13.79	10.32	13.87	10.38	13.95	10.43	14.02	10.50	14.10	10.57
Component efficiency [%]	20.23		20.48		20.74		21.00		21.25		21.51	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C
 Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	108(6×18)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	21.5kg $\pm 3\%$
Size	1722×1134×35mm
Packing	31piece/Tray 806piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	$\pm 4\%/\pm 3\%$
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45 ± 2 °C
Safety level	Class II
Fire rating	Class C

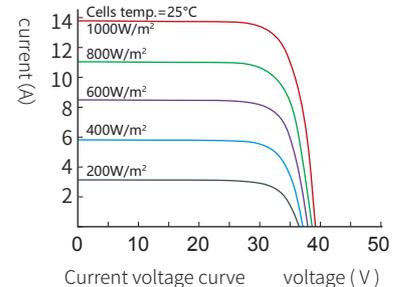
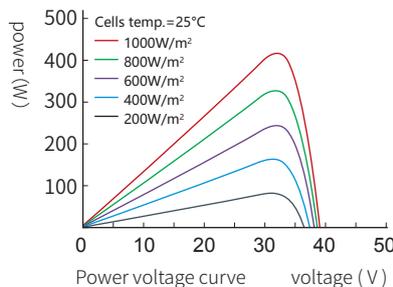
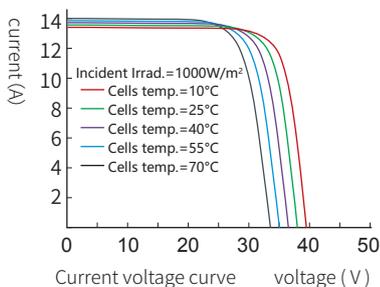


Temperature Coefficient(STC)

Mechanical Load

Short circuit current temperature coefficient of frame section	+0.048%/°C	Front maximum static load	5400Pa
Open circuit voltage temperature coefficient	-0.270%/°C	Maximum back static load	2400Pa
Maximum power temperature coefficient	-0.350%/°C	Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN108H-182M-410W)





SINGLE CRYSTAL GLASS 435-460W

REESUN120H-182M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.26%)
-  12-year product quality warranty, 25-year linear output power warranty

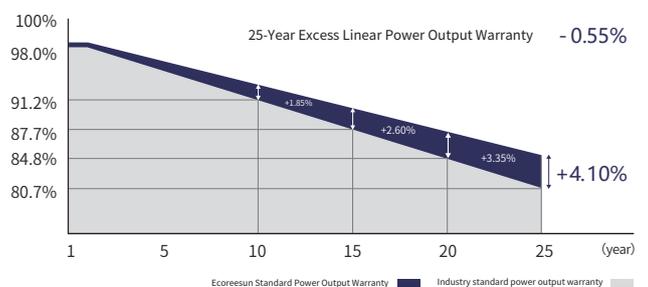
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



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REESUN120H-182M435-460W

Electrical Performance Parameters

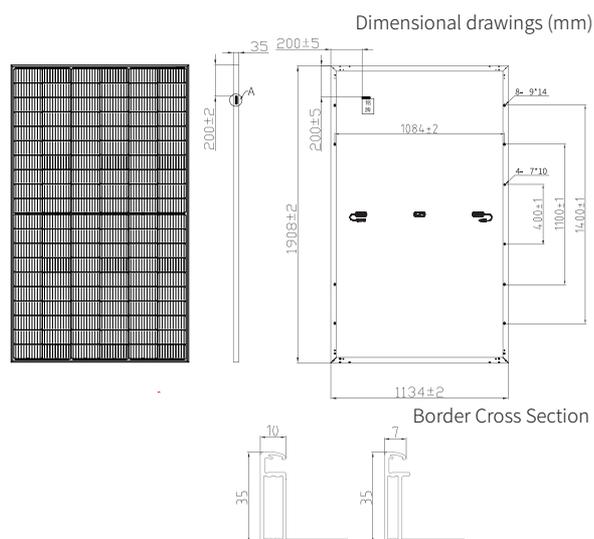
Maximum power test tolerance : ±3%

Component model	435W		440W		445W		450W		455W		460W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	435	326	440	329	445	332	450	335	455	338	460	341
Maximum power voltage [Vmp/V]	33.84	31.48	33.95	31.60	34.07	31.71	34.18	31.83	34.30	31.95	34.41	32.05
Maximum power current [Imp/A]	12.93	10.34	13.01	10.40	13.09	10.46	13.17	10.52	13.25	10.58	13.33	10.64
Open circuit voltage [Voc/V]	40.94	38.64	41.05	38.75	41.17	38.86	41.28	38.96	41.40	39.06	41.51	39.16
Short circuit current [Isc/A]	13.61	10.99	13.69	11.06	13.77	11.12	13.85	11.19	13.93	11.25	14.01	11.32
Component efficiency [%]	20.10		20.34		20.57		20.80		21.03		21.26	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C
Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	120(6×20)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mmSingle layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	24kg±3%
Size	1908×1134×35mm
Packing	31piece/Tray 744piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class C



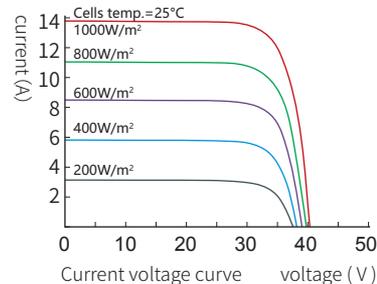
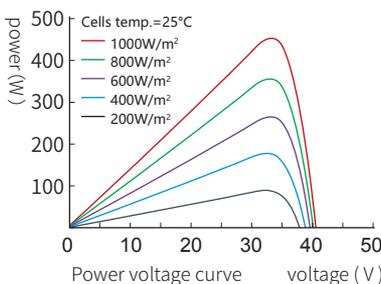
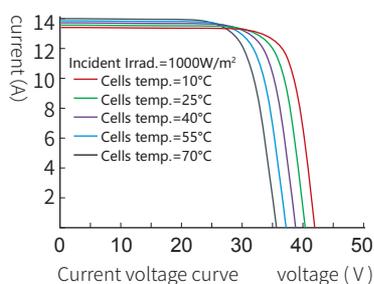
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN120H-182M-450W)





SINGLE CRYSTAL GLASS 480-505W

REESUN132H-182M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.27%)
-  12-year product quality warranty, 25-year linear output power warranty

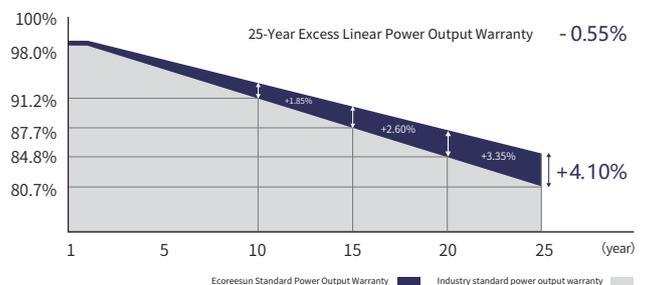
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REESUN132H-182M480-505W

Electrical Performance Parameters

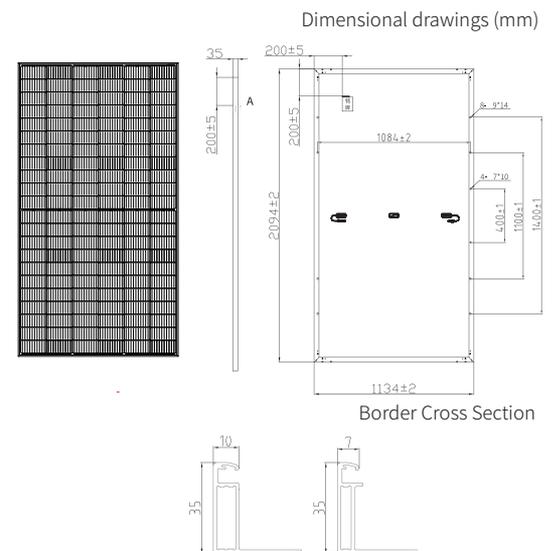
Maximum power test tolerance : ±3%

Component model	480W		485W		490W		495W		500W		505W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	480	363	485	367	490	370	495	374	500	378	505	382
Maximum power voltage [Vmp/V]	37.62	35.54	37.80	35.67	37.99	35.76	38.17	35.84	38.35	35.93	38.53	36.02
Maximum power current [Imp/A]	12.76	10.21	12.83	10.28	12.90	10.36	12.97	10.44	13.04	10.52	13.11	10.60
Open circuit voltage [Voc/V]	45.07	42.15	45.20	42.30	45.33	42.43	45.46	42.58	45.59	42.72	45.72	42.86
Short circuit current [Isc/A]	13.65	10.99	13.72	11.06	13.79	11.13	13.86	11.20	13.93	11.27	14.00	11.34
Component efficiency [%]	20.21		20.42		20.64		20.85		21.06		21.27	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C
Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	132(6×22)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mmSingle layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	26kg±3%
Size	2094×1134×35mm
Packing	31piece/Tray 682piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class C



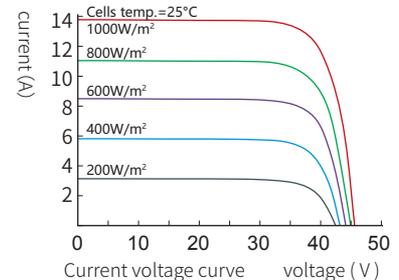
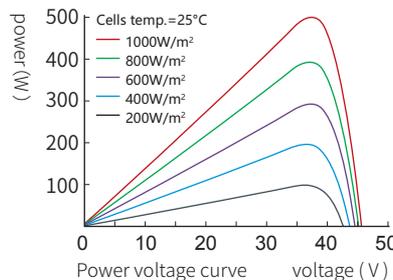
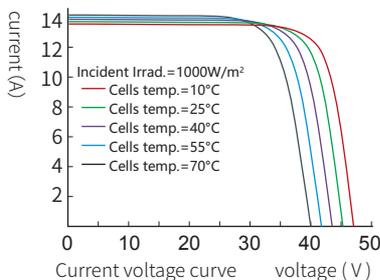
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN132H-182M-500W)





SINGLE CRYSTAL GLASS 530-555W

REESUN144H-182M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.48%)
-  12-year product quality warranty, 25-year linear output power warranty

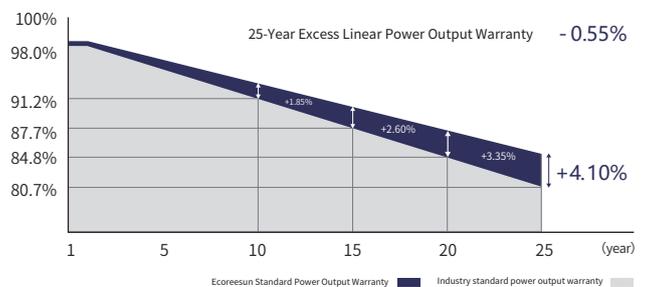
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REESUN144H-182M530-555W

Electrical Performance Parameters

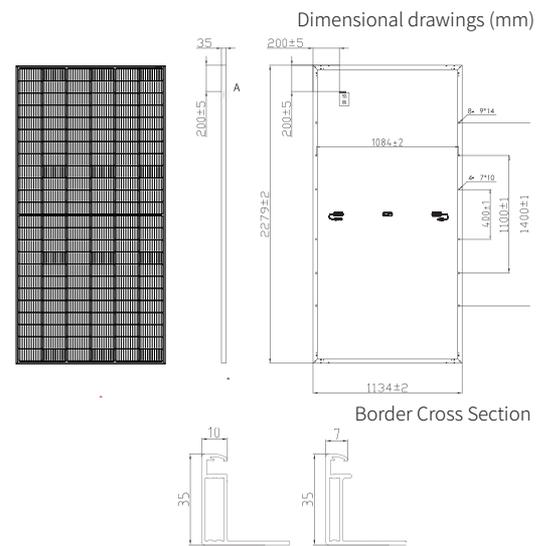
Maximum power test tolerance : ±3%

Component model	530W		535W		540W		545W		550W		555W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	530	401	535	405	540	408	545	412	550	416	555	420
Maximum power voltage [Vmp/V]	40.74	38.57	40.88	38.78	41.01	38.99	41.15	39.20	41.28	39.43	41.42	39.66
Maximum power current [Imp/A]	13.01	10.39	13.09	10.43	13.17	10.47	13.25	10.51	13.33	10.55	13.41	10.59
Open circuit voltage [Voc/V]	49.26	46.18	49.4	46.31	49.53	46.43	49.67	46.55	49.80	46.68	49.94	46.85
Short circuit current [Isc/A]	13.69	11.01	13.77	11.05	13.85	11.09	13.93	11.13	14.01	11.17	14.09	11.21
Component efficiency [%]	20.51		20.70		20.89		21.09		21.28		21.48	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C
Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	144(6×24)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mmSingle layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	27kg±3%
Size	2279×1134×35mm
Packing	31piece/Tray 620piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class C



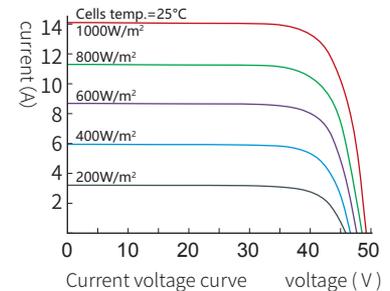
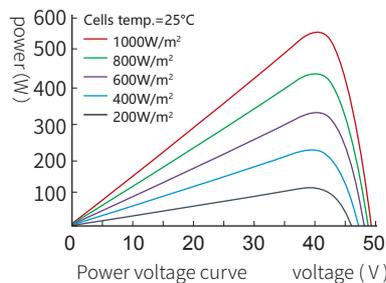
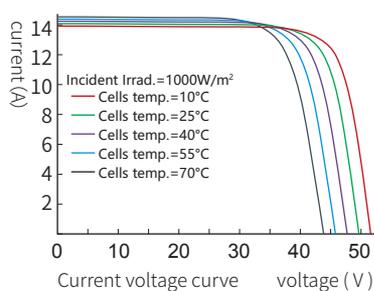
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN144H-182M-550W)





SINGLE CRYSTAL GLASS 530-555W

REESUN110H-210M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.13%)
-  12-year product quality warranty, 25-year linear output power warranty

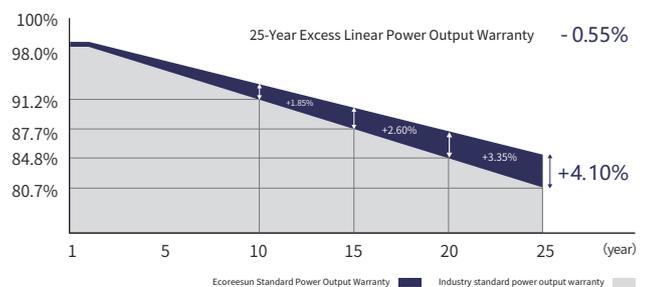
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



*Ecoreesun Solar reserves the right to interpret technical changes and test specifications.

REESUN110H-210M530-555W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

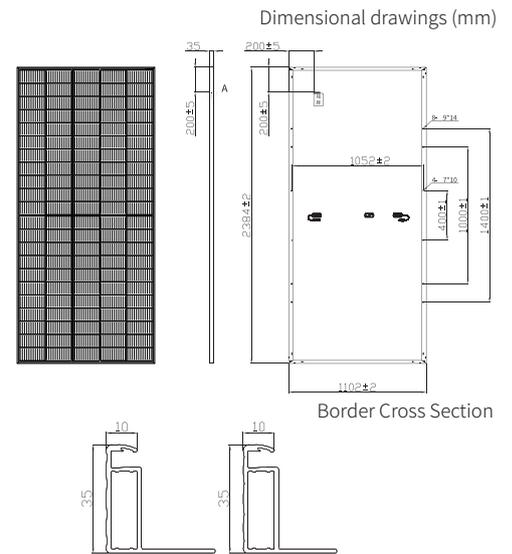
Component model	530W		535W		540W		545W		550W		555W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	530	401	535	405	540	409	545	412	550	416	555	420
Maximum power voltage [Vmp/V]	31.06	28.82	31.26	29.01	31.46	29.19	31.66	29.38	31.86	29.57	32.05	29.77
Maximum power current [Imp/A]	17.07	13.93	17.12	13.97	17.17	14.01	17.22	14.05	17.27	14.09	17.32	14.13
Open circuit voltage [Voc/V]	37.38	34.76	37.58	34.95	37.78	35.14	38.02	35.36	38.24	35.56	38.44	35.76
Short circuit current [Isc/A]	18.08	14.83	18.13	14.87	18.18	14.91	18.23	14.95	18.28	14.99	18.33	15.03
Component efficiency [%]	20.17		20.36		20.55		20.74		20.94		21.13	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C

Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	110(5×22)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	28.5kg±3%
Size	2384×1102×35mm
Packing	31piece/Tray 496piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	30A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class C



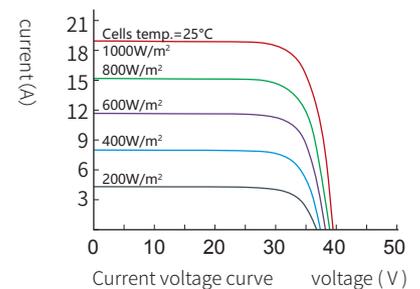
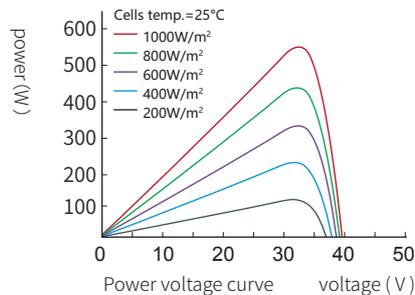
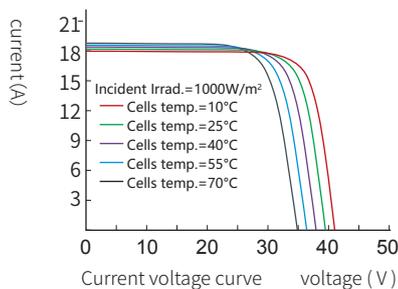
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN110H-210M-550W)





SINGLE CRYSTAL GLASS 580-605W

REESUN120H-210M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.38%)
-  12-year product quality warranty, 25-year linear output power warranty

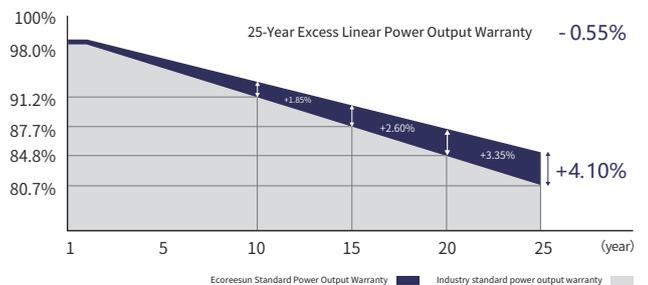
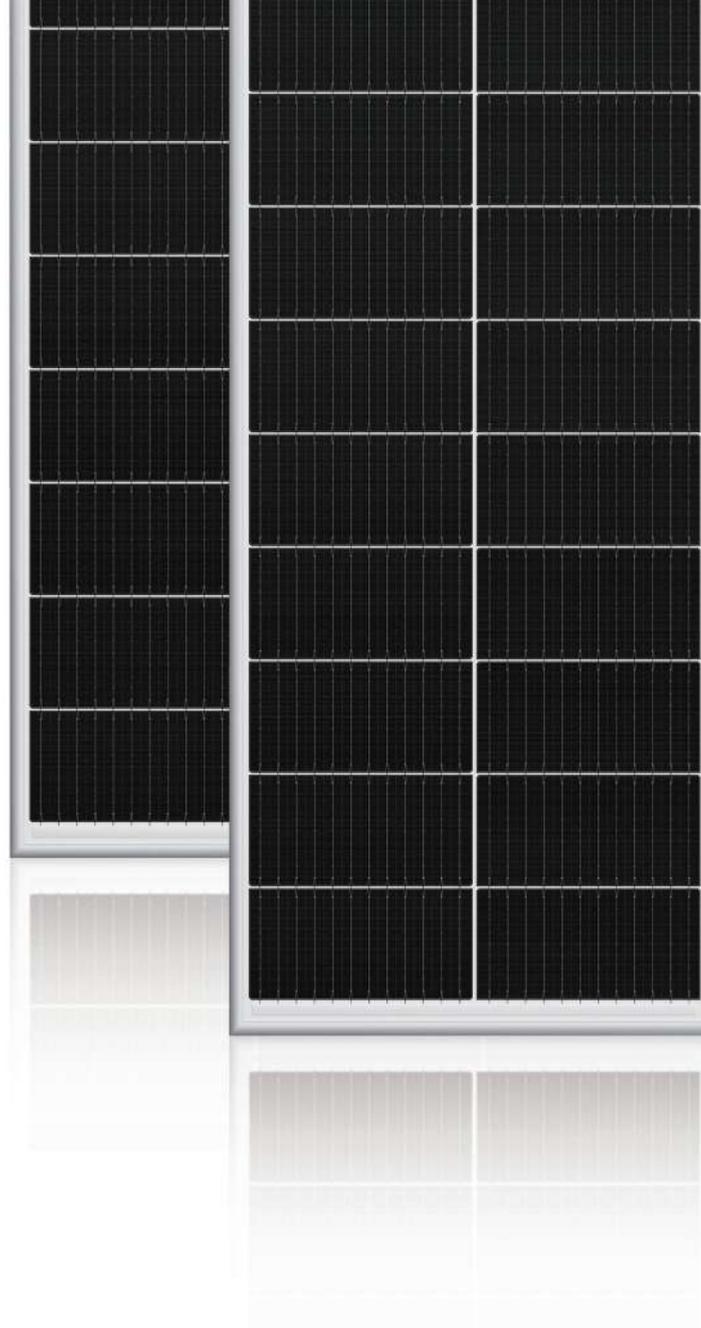
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



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REESUN120H-210M580-605W

Electrical Performance Parameters

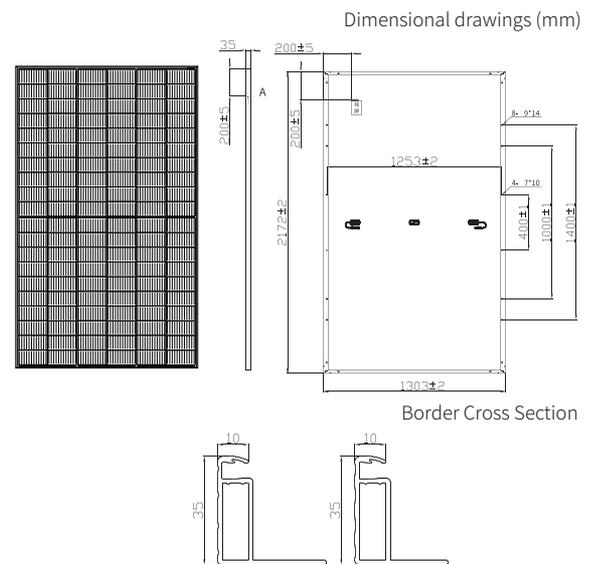
Maximum power test tolerance : $\pm 3\%$

Component model	580W		585W		590W		595W		600W		605W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	580	439	585	443	590	447	595	450	600	454	605	458
Maximum power voltage [Vmp/V]	33.60	31.53	33.80	31.69	34.00	31.89	34.20	32.02	34.40	32.22	34.60	32.42
Maximum power current [Imp/A]	17.27	13.95	17.31	13.99	17.35	14.04	17.40	14.08	17.44	14.12	17.49	14.16
Open circuit voltage [Voc/V]	40.70	37.94	40.90	38.13	41.10	38.32	41.30	38.50	41.50	38.69	41.70	38.87
Short circuit current [Isc/A]	18.32	14.85	18.37	14.89	18.42	14.93	18.47	14.97	18.52	15.02	18.57	15.06
Component efficiency [%]	20.49		20.67		20.85		21.02		21.20		21.38	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C
 Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	120(6×20)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	31kg \pm 3%
Size	2172×1303×35mm
Packing	31piece/Tray 558piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	$\pm 4\%/\pm 3\%$
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	30A
Nominal operating battery temperature	45 \pm 2°C
Safety level	Class II
Fire rating	Class C



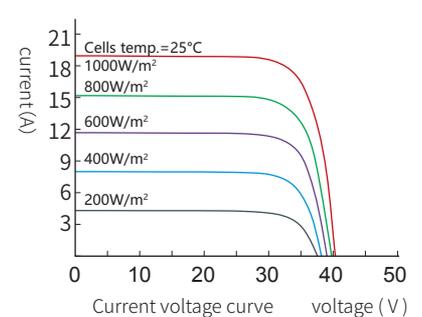
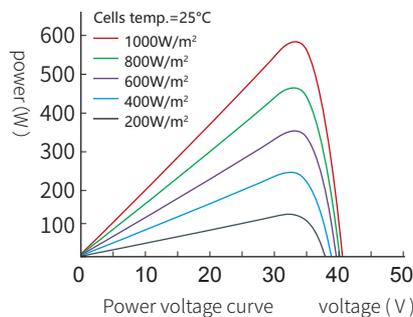
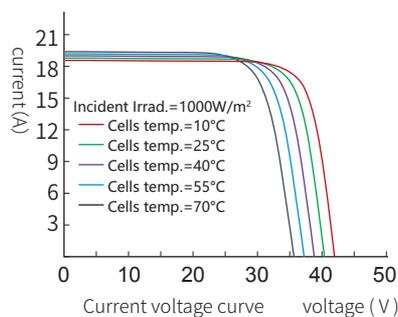
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN120H-210M-590W)





SINGLE CRYSTAL GLASS 645-670W

REESUN132H-210M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.57%)
-  12-year product quality warranty, 25-year linear output power warranty



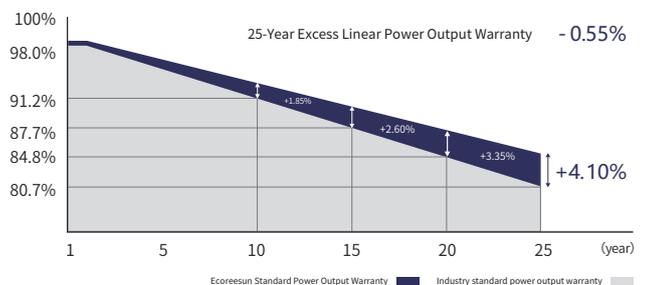
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



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REESUN132H-210M645-670W

Electrical Performance Parameters

Maximum power test tolerance : $\pm 3\%$

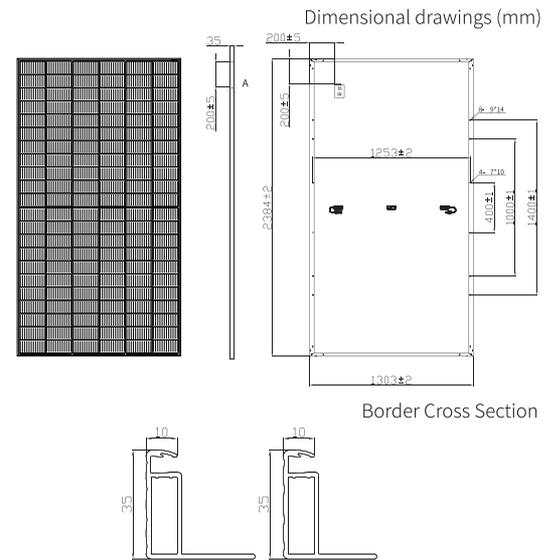
Component model	645W		650W		655W		660W		665W		670W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	645	488	650	492	655	496	660	500	665	504	670	508
Maximum power voltage [Vmp/V]	37.20	34.80	37.40	34.90	37.60	35.10	37.80	35.30	38.00	35.50	38.20	35.70
Maximum power current [Imp/A]	17.35	14.05	17.39	14.09	17.43	14.13	17.47	14.17	17.51	14.21	17.55	14.24
Open circuit voltage [Voc/V]	45.10	42.50	45.30	42.70	45.50	42.90	45.70	43.00	45.90	43.10	46.10	43.30
Short circuit current [Isc/A]	18.39	14.82	18.44	14.86	18.48	14.89	18.53	14.93	18.57	14.96	18.62	15.00
Component efficiency [%]	20.76		20.92		21.09		21.25		21.41		21.57	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C

Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	132(6×22)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	33.5kg $\pm 3\%$
Size	2384×1303×35mm
Packing	31piece/Tray 558piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	$\pm 4\%/\pm 3\%$
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	30A
Nominal operating battery temperature	45 $\pm 2^\circ\text{C}$
Safety level	Class II
Fire rating	Class C



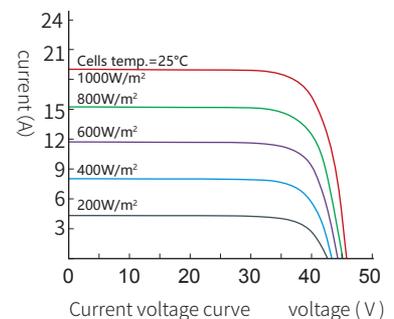
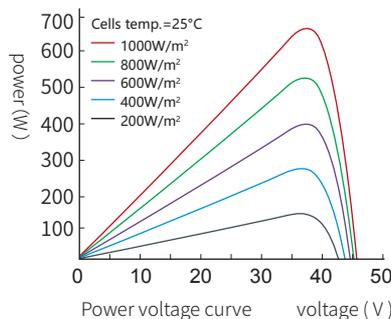
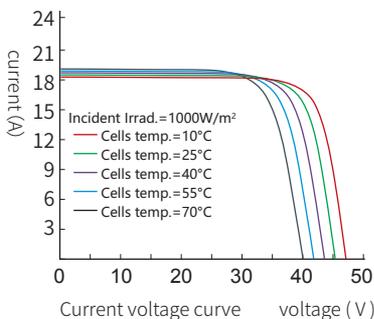
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN132H-210M-665W)





SINGLE CRYSTAL DOUBLE GLASS 355-380W

REESUN120HB-166M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 20.86%)
-  12-year product quality warranty, 30-year linear output power warranty

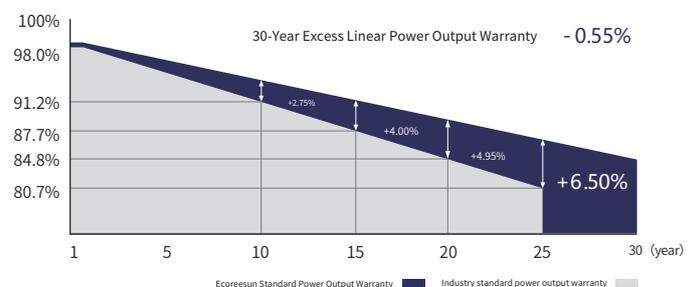
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



*Ecoresun Solar reserves the right to interpret technical changes and test specifications.

REESUN120HB-166M355-380W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	355W		360W		365W		370W		375W		380W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	355	266	360	270	365	274	370	278	375	281	380	285
Maximum power voltage [Vmp/V]	33.37	31.28	33.59	31.48	33.80	31.68	34.01	31.88	34.22	32.08	34.42	32.27
Maximum power current [Imp/A]	10.64	8.51	10.72	8.58	10.80	8.64	10.88	8.70	10.96	8.77	11.04	8.83
Open circuit voltage [Voc/V]	40.21	37.51	40.41	37.77	40.61	38.02	40.81	38.27	41.01	38.51	41.21	38.76
Short circuit current [Isc/A]	11.09	8.87	11.17	8.94	11.25	9.00	11.33	9.06	11.41	9.13	11.49	9.19
Component efficiency [%]	19.49		19.76		20.04		20.31		20.59		20.86	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C
Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

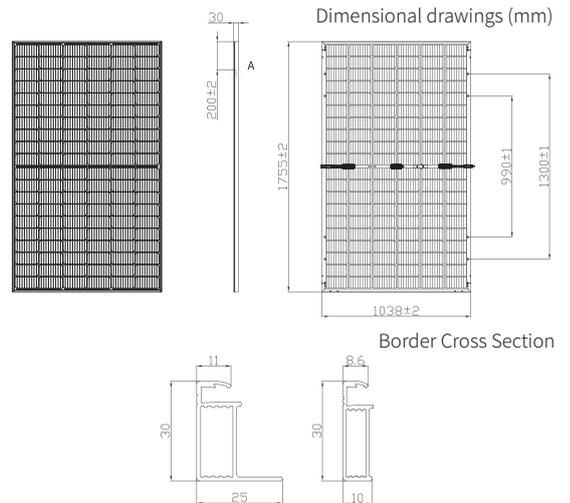
Back Electrical Performance Parameters

Maximum power test tolerance : ±3%

	Component model	355W	360W	365W	370W	375W	380W
5%	Maximum power (pamx)	372	378	383	388	393	399
	Component efficiency (%)	20.4	20.7	21.0	21.3	21.6	21.9
15%	Maximum power (pamx)	408	414	419	425	431	437
	Component efficiency (%)	22.4	22.7	23.0	23.3	23.6	23.9
25%	Maximum power (pamx)	443	450	456	462	468	475
	Component efficiency (%)	24.3	24.7	25.0	25.3	25.7	26.0

Mechanical And Operating Parameters

Number of battery cells	120(6×20)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	23kg±3%
Size	1755×1038×30mm
Packing	36piece/Tray 936piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	20A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A



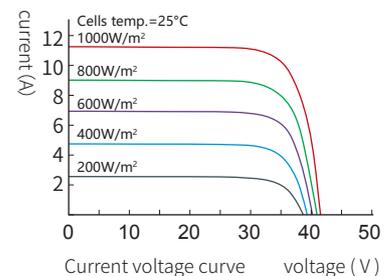
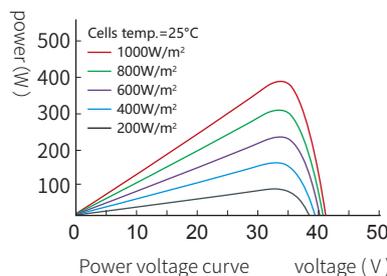
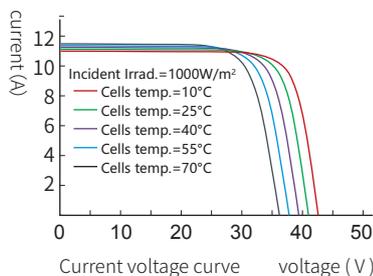
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN120HB-166M-380W)





SINGLE CRYSTAL DOUBLE GLASS 435-460W

REESUN144HB-166M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.16%)
-  12-year product quality warranty, 30-year linear output power warranty



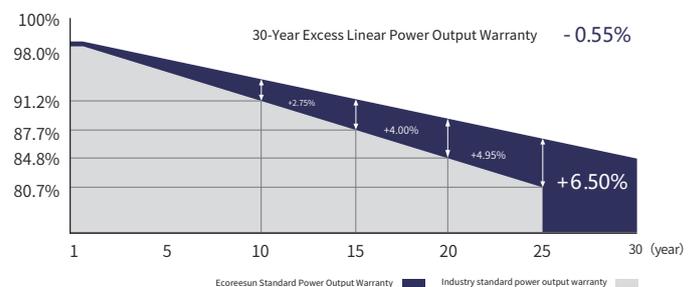
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



*Ecoresun Solar reserves the right to interpret technical changes and test specifications.

REESUN144HB-166M435-460W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	435W		440W		445W		450W		455W		460W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	435	326	440	330	445	334	450	338	455	341	460	345
Maximum power voltage [Vmp/V]	40.43	37.90	40.63	38.09	40.83	38.27	41.03	38.46	41.22	38.64	41.41	38.82
Maximum power current [Imp/A]	10.76	8.61	10.83	8.66	10.90	8.72	10.97	8.78	11.04	8.83	11.11	8.89
Open circuit voltage [Voc/V]	48.72	45.39	48.95	45.67	49.13	45.95	49.33	46.22	49.53	46.49	49.73	46.75
Short circuit current [Isc/A]	11.23	8.98	11.29	9.03	11.35	9.08	11.41	9.13	11.47	9.18	11.53	9.22
Component efficiency [%]	20.01		20.24		20.47		20.70		20.93		21.16	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C
Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

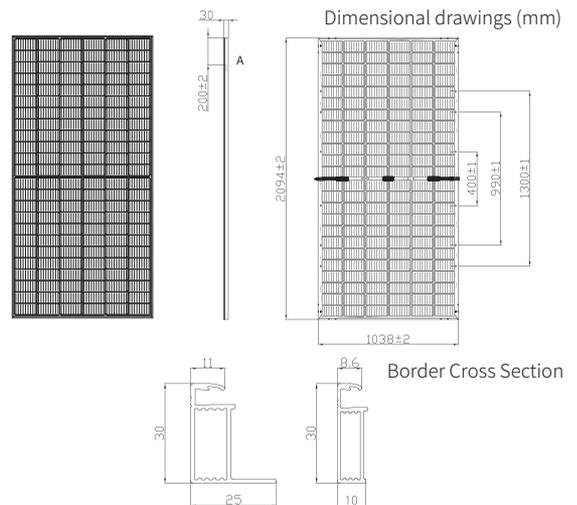
Back Electrical Performance Parameters

Maximum power test tolerance : ±3%

	Component model	435W	440W	445W	450W	455W	460W
5%	Maximum power (pamx)	456	462	467	472	477	483
	Component efficiency (%)	21.0	21.2	21.4	21.7	21.9	22.2
15%	Maximum power (pamx)	500	506	511	517	523	529
	Component efficiency (%)	23.0	23.2	23.5	23.8	24.0	24.3
25%	Maximum power (pamx)	543	550	556	562	568	575
	Component efficiency (%)	25.0	25.3	25.5	25.8	26.1	26.4

Mechanical And Operating Parameters

Number of battery cells	144(6×24)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	27.5kg±3%
Size	2094×1038×30mm
Packing	36piece/Tray 792piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	20A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A



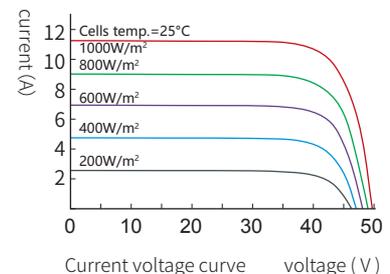
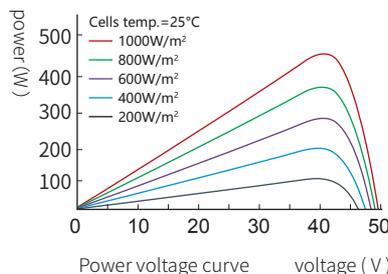
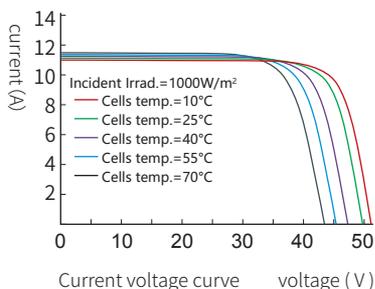
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN144HB-166M-450W)





SINGLE CRYSTAL DOUBLE GLASS 390-415W

REESUN108HB-182M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.25%)
-  12-year product quality warranty, 30-year linear output power warranty

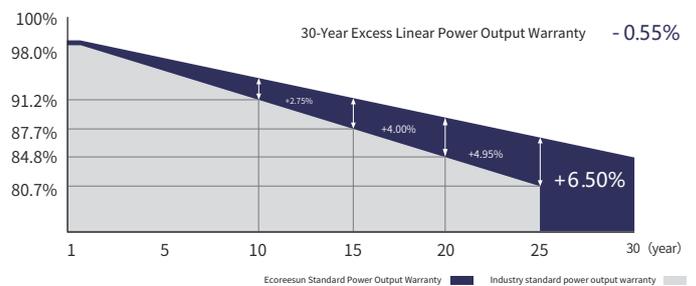
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



*Ecoresun Solar reserves the right to interpret technical changes and test specifications.

REESUN108HB-182M390-415W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	390W		395W		400W		405W		410W		415W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	390	293	395	296	400	300	405	304	410	308	415	311
Maximum power voltage [Vmp/V]	30.64	28.72	30.85	28.91	31.05	29.09	31.24	29.27	31.44	29.48	31.64	29.63
Maximum power current [Imp/A]	12.73	10.18	12.81	10.25	12.89	10.31	12.97	10.38	13.04	10.43	13.13	10.50
Open circuit voltage [Voc/V]	36.50	33.58	36.75	33.81	37.00	34.02	37.25	34.24	37.50	34.47	37.75	34.69
Short circuit current [Isc/A]	13.61	10.89	13.69	10.95	13.78	11.02	13.86	11.09	13.94	11.15	14.02	11.22
Component efficiency [%]	19.97		20.23		20.48		20.74		21.00		21.25	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C

Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

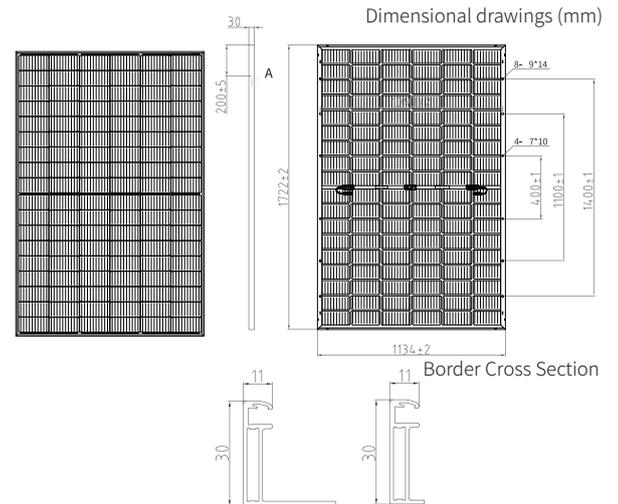
Back Electrical Performance Parameters

Maximum power test tolerance : ±3%

	Component model	390W	395W	400W	405W	410W	415W
		5%	Maximum power (pamx)	409	414	420	425
	Component efficiency (%)	20.9	21.2	21.5	21.7	22.0	22.3
15%	Maximum power (pamx)	448	454	460	465	471	477
	Component efficiency (%)	22.9	23.2	23.5	23.8	24.1	24.4
25%	Maximum power (pamx)	487	493	500	506	512	518
	Component efficiency (%)	24.9	25.2	25.6	25.9	26.2	26.5

Mechanical And Operating Parameters

Number of battery cells	108(6×18)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	24.5kg±3%
Size	1722×1134×30mm
Packing	36piece/Tray 936piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A



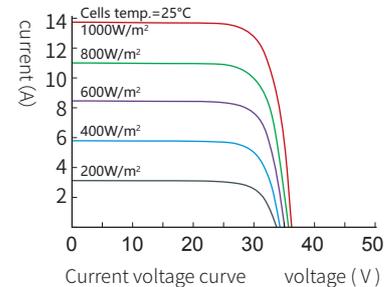
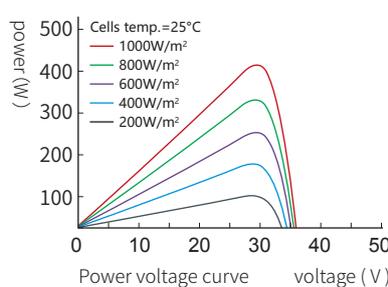
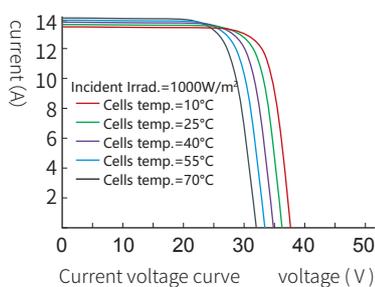
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.045%/°C
Open circuit voltage temperature coefficient	-0.261%/°C
Maximum power temperature coefficient	-0.331%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V curve (REESUN108HB-182M-410W)





SINGLE CRYSTAL DOUBLE GLASS 435-460W

REESUN120HB-182M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.26%)
-  12-year product quality warranty, 30-year linear output power warranty



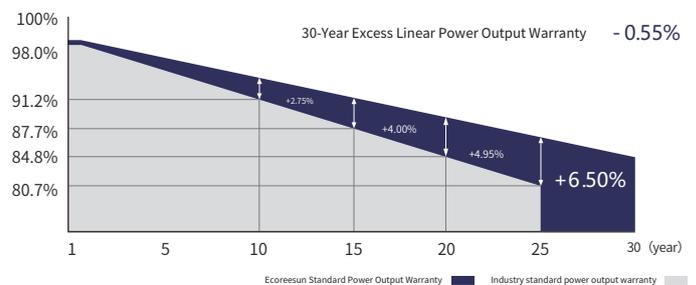
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



*Ecoreesun Solar reserves the right to interpret technical changes and test specifications.

REESUN120HB-182M435-460W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	435W		440W		445W		450W		455W		460W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	435	326	440	330	445	334	450	338	455	341	460	345
Maximum power voltage [Vmp/V]	34.18	32.09	34.35	32.20	34.53	32.37	34.70	32.53	34.87	32.69	35.04	32.84
Maximum power current [Imp/A]	12.71	10.17	12.81	10.25	12.89	10.31	12.97	10.38	13.05	10.44	13.13	10.50
Open circuit voltage [Voc/V]	40.82	37.46	40.99	37.66	41.16	37.84	41.33	38.05	41.50	38.25	41.67	38.45
Short circuit current [Isc/A]	13.61	10.89	13.69	10.95	13.78	11.02	13.86	11.09	13.94	11.15	14.02	11.22
Component efficiency [%]	20.10		20.34		20.57		20.80		21.03		21.26	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C

Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

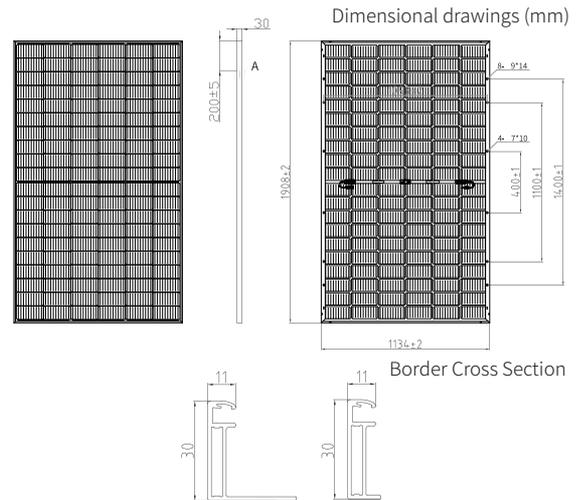
Back Electrical Performance Parameters

Maximum power test tolerance : ±3%

	Component model	435W	440W	445W	450W	455W	460W
		5%	Maximum power (pamx)	456	462	467	472
	Component efficiency (%)	21.1	21.3	21.5	21.8	22.0	22.3
15%	Maximum power (pamx)	500	506	511	517	523	529
	Component efficiency (%)	23.1	23.3	23.6	23.9	24.1	24.4
25%	Maximum power (pamx)	543	550	556	562	568	575
	Component efficiency (%)	25.1	25.4	25.7	25.9	26.2	26.5

Mechanical And Operating Parameters

Number of battery cells	120(6×20)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	26.9kg±3%
Size	1908×1134×30mm
Packing	36piece/Tray 864piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A



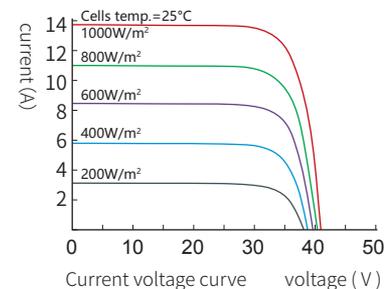
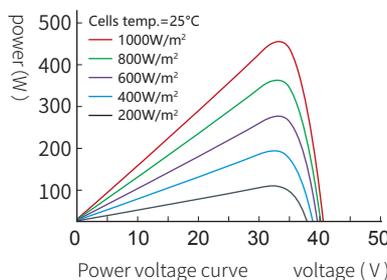
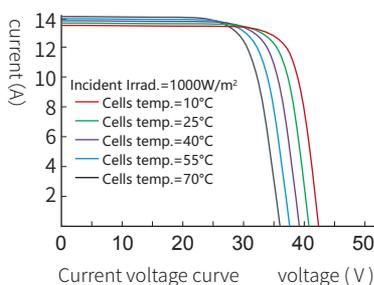
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.045%/°C
Open circuit voltage temperature coefficient	-0.261%/°C
Maximum power temperature coefficient	-0.331%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN120HB-182M-450W)





SINGLE CRYSTAL DOUBLE GLASS 480-505W

REESUN132HB-182M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.27%)
-  12-year product quality warranty, 30-year linear output power warranty



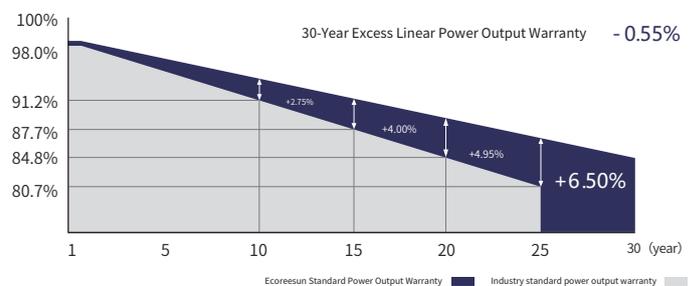
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



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REESUN132HB-182M480-505W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	480W		485W		490W		495W		500W		505W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	480	360	485	364	490	368	495	371	500	375	505	379
Maximum power voltage [Vmp/V]	37.77	35.41	37.93	35.55	38.08	35.69	38.23	35.81	38.38	35.97	38.53	36.11
Maximum power current [Imp/A]	12.71	10.17	12.79	10.23	12.87	10.30	12.96	10.37	13.03	10.42	13.11	10.49
Open circuit voltage [Voc/V]	44.94	41.39	45.10	41.58	45.25	41.76	45.40	41.94	45.55	42.12	45.70	42.30
Short circuit current [Isc/A]	13.59	10.87	13.67	10.94	13.75	11.00	13.83	11.06	13.91	11.13	13.99	11.19
Component efficiency [%]	20.21		20.42		20.64		20.85		21.06		21.27	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C

Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

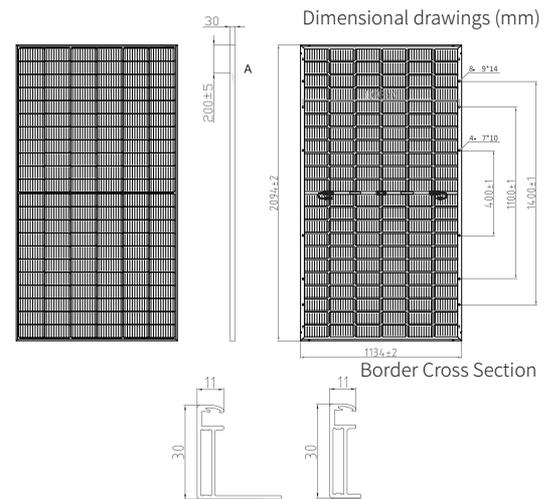
Back Electrical Performance Parameters

Maximum power test tolerance : ±3%

	Component model	480W	485W	490W	495W	500W	505W
		5%	Maximum power (pamx)	504	509	514	519
	Component efficiency (%)	21.2	21.4	21.6	21.8	22.1	22.3
15%	Maximum power (pamx)	552	557	563	569	575	580
	Component efficiency (%)	23.2	23.4	23.7	23.9	24.2	24.4
25%	Maximum power (pamx)	600	606	612	618	625	631
	Component efficiency (%)	25.2	25.5	25.7	26.0	26.3	26.5

Mechanical And Operating Parameters

Number of battery cells	132(6×22)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	29kg±3%
Size	2094×1134×30mm
Packing	36piece/Tray 792piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A



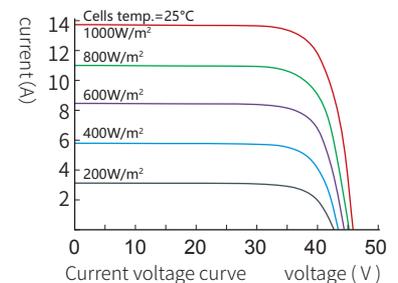
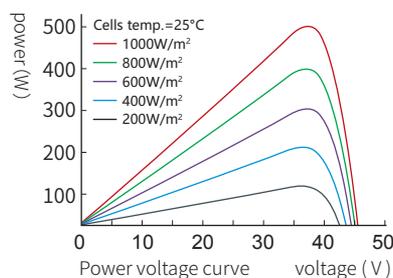
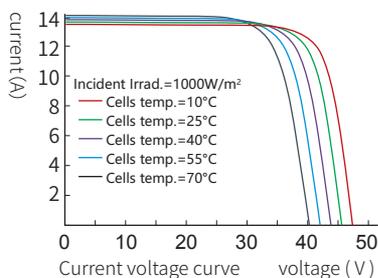
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.045%/°C
Open circuit voltage temperature coefficient	-0.261%/°C
Maximum power temperature coefficient	-0.331%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN132HB-182M-500 W)





SINGLE CRYSTAL DOUBLE GLASS 525-550W

REESUN144HB-182M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.28%)
-  12-year product quality warranty, 30-year linear output power warranty

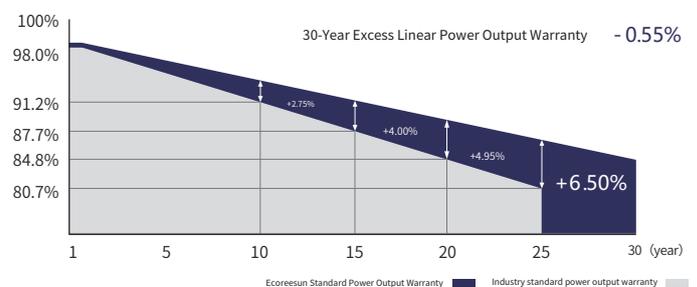
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



*Ecoreesun Solar reserves the right to interpret technical changes and test specifications.



SINGLE CRYSTAL DOUBLE GLASS 535-560W

REESUN110HB-210M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.32%)
-  12-year product quality warranty, 30-year linear output power warranty

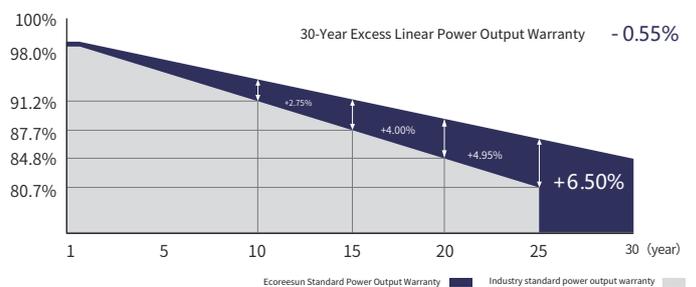
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



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REESUN110HB-210M535-560W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	535W		540W		545W		550W		555W		560W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	535	401	540	405	545	409	550	413	555	416	560	420
Maximum power voltage [Vmp/V]	31.20	29.23	31.40	29.42	31.60	29.62	31.80	29.82	32.00	30.01	32.20	30.17
Maximum power current [Imp/A]	17.16	13.73	17.21	13.77	17.25	13.80	17.29	13.83	17.34	13.87	17.40	13.92
Open circuit voltage [Voc/V]	37.50	34.37	37.70	34.58	37.90	34.81	38.10	35.05	38.30	35.29	38.50	35.53
Short circuit current [Isc/A]	18.24	14.59	18.30	14.64	18.35	14.68	18.39	14.71	18.43	14.74	18.47	14.78
Component efficiency [%]	20.36		20.55		20.74		20.94		21.13		21.32	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C

Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

Back Electrical Performance Parameters

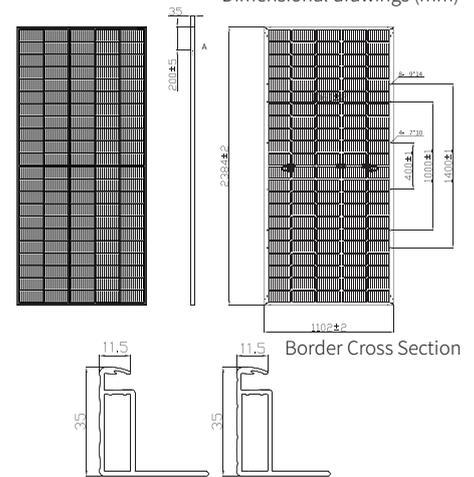
Maximum power test tolerance : ±3%

Component model	535W	540W	545W	550W	555W	560W	
	5%	Maximum power (pamx)	561	567	572	577	582
	Component efficiency (%)	21.3	21.5	21.7	21.9	22.1	22.3
15%	Maximum power (pamx)	615	621	626	632	638	644
	Component efficiency (%)	23.4	23.6	23.8	24.0	24.2	24.5
25%	Maximum power (pamx)	668	675	681	687	693	700
	Component efficiency (%)	25.4	25.6	25.9	26.1	26.4	26.6

Mechanical And Operating Parameters

Number of battery cells	110 (5×22)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	32kg±3%
Size	2384×1102×35mm
Packing	31piece/Tray 496piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	30A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A

Dimensional drawings (mm)



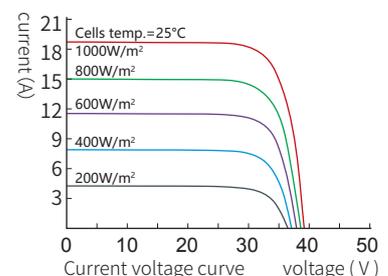
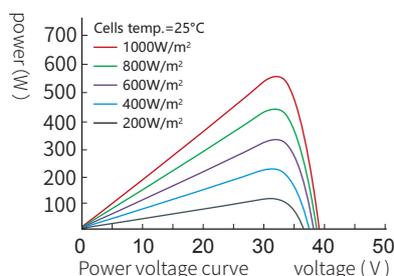
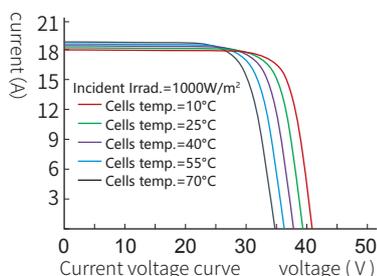
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.045%/°C
Open circuit voltage temperature coefficient	-0.261%/°C
Maximum power temperature coefficient	-0.331%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN110H-210M-550W)





SINGLE CRYSTAL DOUBLE GLASS 585-610W

REESUN120HB-210M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.55%)
-  12-year product quality warranty, 30-year linear output power warranty



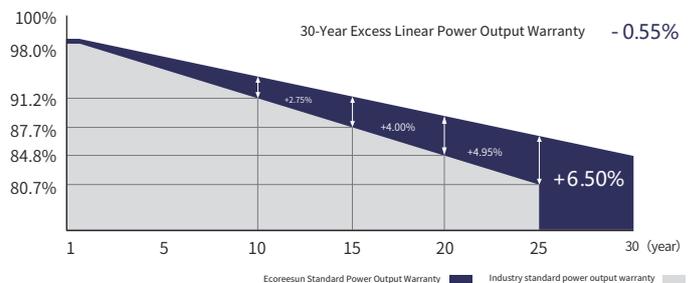
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



*Ecoresun Solar reserves the right to interpret technical changes and test specifications.

REESUN120HB-210M585-610W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	585W		590W		595W		600W		605W		610W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	585	439	590	443	595	446	600	450	605	454	610	458
Maximum power voltage [Vmp/V]	34.00	31.87	34.20	32.07	34.4	32.24	34.60	32.44	34.80	32.63	35.00	32.81
Maximum power current [Imp/A]	17.21	13.77	17.25	13.80	17.30	13.84	17.34	13.87	17.38	13.90	17.43	13.94
Open circuit voltage [Voc/V]	41.10	37.54	41.30	37.76	41.50	37.98	41.70	38.17	41.90	38.39	42.10	38.60
Short circuit current [Isc/A]	18.26	14.61	18.31	14.65	18.36	14.69	18.42	14.74	18.47	14.78	18.52	14.82
Component efficiency [%]	20.67		20.85		21.02		21.20		21.38		21.55	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C

Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

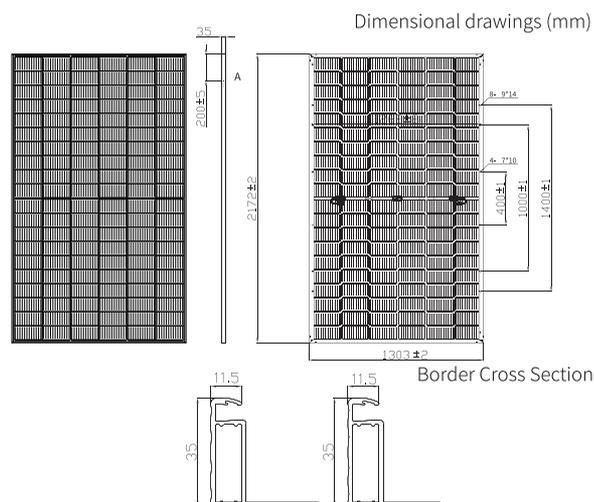
Back Electrical Performance Parameters

Maximum power test tolerance : ±3%

	Component model	585W	590W	595W	600W	605W	610W
		5%	Maximum power (pamx)	614	619	624	630
	Component efficiency (%)	21.7	21.8	22.0	22.2	22.4	22.6
15%	Maximum power (pamx)	672	678	684	690	695	701
	Component efficiency (%)	23.7	23.9	24.1	24.3	24.5	24.7
25%	Maximum power (pamx)	731	737	743	750	756	762
	Component efficiency (%)	25.8	26.0	26.2	26.5	26.7	26.9

Mechanical And Operating Parameters

Number of battery cells	120(6×20)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	35kg±3%
Size	2172×1303×35mm
Packing	31piece/Tray 558piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	30A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A



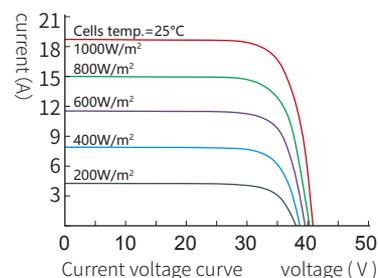
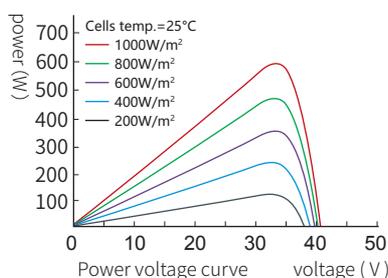
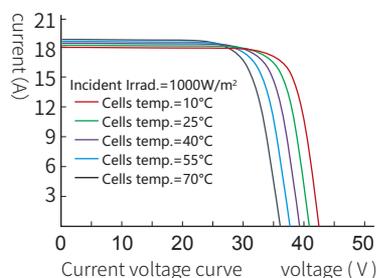
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.045%/°C
Open circuit voltage temperature coefficient	-0.261%/°C
Maximum power temperature coefficient	-0.331%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN120H-210M-590W)





SINGLE CRYSTAL DOUBLE GLASS 645-670W

REESUN132HB-210M

High efficiency and low light attenuation
PERC single crystal technology
HALF-CELL technology

-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 21.57%)
-  12-year product quality warranty, 30-year linear output power warranty

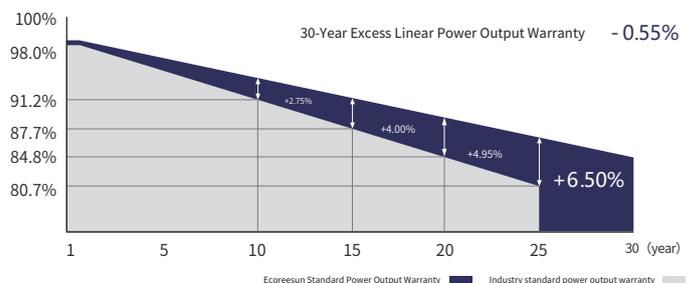
Comprehensive Product And System Certification

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System Certification

ISO 14001:2015: ISO Environmental management system certification

ISO 45001:2018 Occupational Health and Safety Management System Certification



*Ecoresun Solar reserves the right to interpret technical changes and test specifications.

REESUN132HB-210M645-670W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	645W		650W		655W		660W		665W		670W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	645	484	650	488	655	491	660	495	665	499	670	503
Maximum power voltage [Vmp/V]	37.50	35.10	37.70	35.29	37.90	35.47	38.10	35.66	38.30	35.85	38.50	36.04
Maximum power current [Imp/A]	17.23	13.78	17.27	13.82	17.31	13.85	17.35	13.88	17.39	13.91	17.43	13.94
Open circuit voltage [Voc/V]	45.30	41.28	45.50	41.51	45.70	41.72	45.90	41.92	46.10	42.12	46.30	42.33
Short circuit current [Isc/A]	18.31	14.65	18.35	14.68	18.40	14.72	18.45	14.76	18.50	14.80	18.55	14.84
Component efficiency [%]	20.76		20.92		21.09		21.25		21.41		21.57	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C
Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

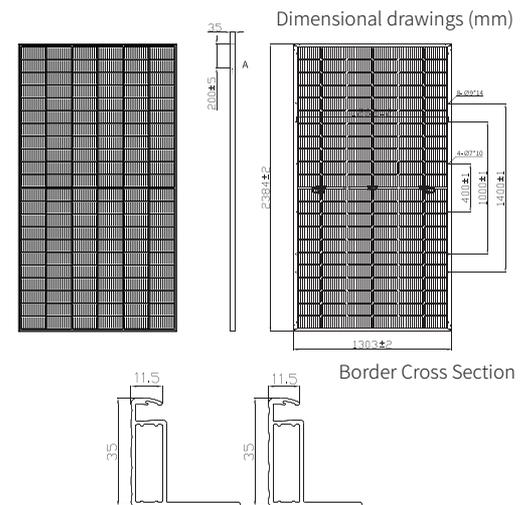
Back Electrical Performance Parameters

Maximum power test tolerance : ±3%

	Component model	645W	650W	655W	660W	665W	670W
		5%	Maximum power (pamx)	677	682	687	693
	Component efficiency (%)	21.8	21.9	22.1	22.3	22.4	22.6
15%	Maximum power (pamx)	741	747	753	759	764	770
	Component efficiency (%)	23.8	24.0	24.2	24.4	24.6	24.8
25%	Maximum power (pamx)	806	812	818	825	831	837
	Component efficiency (%)	25.9	26.1	26.3	26.5	26.7	26.9

Mechanical And Operating Parameters

Number of battery cells	132 (6×22)
Junction box	IP68, Three diodes
Output cable	4mm ² , length300mm, Customizable length
Glass	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	38.5kg±3%
Size	2384×1303×35mm
Packing	31piece/Tray 558piece/40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	30A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A



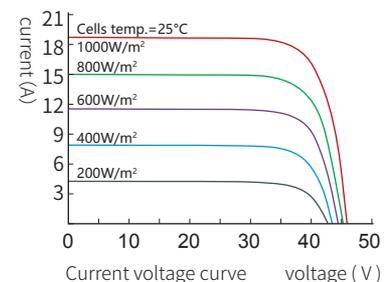
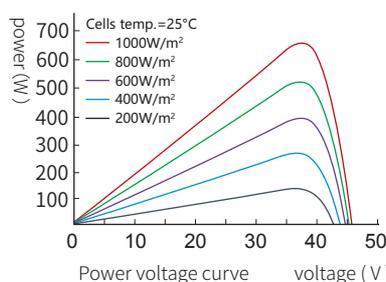
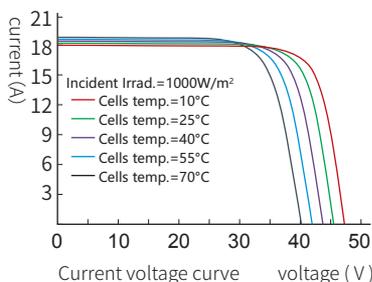
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.045%/°C
Open circuit voltage temperature coefficient	-0.261%/°C
Maximum power temperature coefficient	-0.331%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN132HB-210M-655W)



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