



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

**CERTIFICATE NO.:** CQC22024362054

**Valid from:** Sep.30,2022

**Valid until:** Sep.05,2027

<b>NAME AND REGISTERED ADDRESS OF THE APPLICANT</b>	Changzhou Great Solar Technology Co., Ltd No.2 Tianshan Road , Sanjing Industrial Zone , XinbeiDistrict , Changzhou
<b>NAME AND REGISTERED ADDRESS OF THE MANUFACTURER</b>	Changzhou Great Solar Technology Co., Ltd No.2 Tianshan Road , Sanjing Industrial Zone , XinbeiDistrict , Changzhou
<b>NAME AND LOCATION OF THE FACTORY</b>	Anhui Huasun Energy Co., Ltd. No. 99, Qingliu Road, Xuancheng Economic and Technological Development Zone, Xuanzhou District, Xuancheng City, Anhui Province, China.
<b>PRODUCT NAME, MODEL AND SPECIFICATION</b>	PV see appendix
<b>THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS</b>	IEC61215-1:2016;IEC 61215-1-1:2016;IEC 61215-2:2016
<b>TYPE OF CERTIFICATION SCHEMES</b>	Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC33-471541-2017.  
The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)



SIGNATURE:

谢肇煦



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 1 of 10

CERTIFICATE NO.: CQC22024362054

PAPER:

组件型号	Voc [V]	Isc [A]	Vmp [V]	Imp [A]	Pmax [W]	系统电压 [V]	额定电流 [A]
GSM440M8-144BG	52.70	10.34	44.45	9.92	440	1500	20
GSM445M8-144BG	52.83	10.40	44.65	9.98	445	1500	20
GSM450M8-144BG	52.96	10.46	44.85	10.05	450	1500	20
GSM455M8-144BG	53.09	10.52	45.04	10.12	455	1500	20
GSM460M8-144BG	53.22	10.58	45.24	10.18	460	1500	20
GSM465M8-144BG	53.35	10.64	45.44	10.24	465	1500	20
GSM470M8-144BG	53.48	10.70	45.66	10.30	470	1500	20
GSM475M8-144BG	53.61	10.76	45.86	10.36	475	1500	20
GSM480M8-144BG	53.74	10.82	46.08	10.43	480	1500	20
GSM485M8-144BG	54.00	10.88	46.20	10.50	485	1500	20
GSM490M8-144BG	54.25	10.94	46.36	10.57	490	1500	20
GSM495M8-144BG	54.50	11.00	46.53	10.64	495	1500	20
GSM500M8-144BG	54.75	11.06	46.69	10.71	500	1500	20
GSM405M8-132BG	48.31	10.61	39.63	10.22	405	1500	20
GSM410M8-132BG	48.47	10.63	39.97	10.26	410	1500	20
GSM415M8-132BG	48.62	10.65	40.30	10.30	415	1500	20
GSM420M8-132BG	48.80	10.66	40.66	10.33	420	1500	20
GSM425M8-132BG	48.90	10.69	40.95	10.38	425	1500	20

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CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 2 of 10

CERTIFICATE NO.: CQC22024362054

PAPER:

GSM430M8-132BG	49.08	10.70	41.31	10.41	430	1500	20
GSM435M8-132BG	49.21	10.72	41.63	10.45	435	1500	20
GSM440M8-132BG	49.29	10.75	41.95	10.49	440	1500	20
GSM445M8-132BG	49.71	10.78	42.27	10.53	445	1500	20
GSM450M8-132BG	50.12	10.81	42.58	10.57	450	1500	20
GSM455M8-132BG	50.53	10.84	42.89	10.61	455	1500	20
GSM365M8-120BG	43.83	10.32	36.90	9.91	365	1500	20
GSM370M8-120BG	43.96	10.38	37.11	9.98	370	1500	20
GSM375M8-120BG	44.09	10.44	37.31	10.06	375	1500	20
GSM380M8-120BG	44.22	10.50	37.52	10.14	380	1500	20
GSM385M8-120BG	44.35	10.56	37.70	10.22	385	1500	20
GSM390M8-120BG	44.48	10.62	37.91	10.30	390	1500	20
GSM395M8-120BG	44.61	10.68	38.16	10.36	395	1500	20
GSM400M8-120BG	44.74	10.74	38.36	10.44	400	1500	20
GSM405M8-120BG	45.04	10.80	38.50	10.52	405	1500	20
GSM410M8-120BG	45.34	10.86	38.68	10.60	410	1500	20
GSM415M8-120BG	45.64	10.92	38.86	10.68	415	1500	20
GSM440M8-144BGN	53.08	10.44	44.33	9.94	440	1500	20
GSM445M8-144BGN	53.18	10.54	44.39	10.04	445	1500	20
GSM450M8-144BGN	53.28	10.64	44.45	10.14	450	1500	20

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CHINA QUALITY CERTIFICATION CENTRE





# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 3 of 10

CERTIFICATE NO.: CQC22024362054

PAPER:

GSM455M8-144BGN	53.38	10.74	44.51	10.24	455	1500	20
GSM460M8-144BGN	53.48	10.84	44.57	10.34	460	1500	20
GSM465M8-144BGN	53.58	10.94	44.63	10.43	465	1500	20
GSM470M8-144BGN	53.68	11.04	44.69	10.53	470	1500	20
GSM475M8-144BGN	53.78	11.14	44.75	10.63	475	1500	20
GSM480M8-144BGN	53.88	11.24	44.81	10.73	480	1500	20
GSM405M8-132BGN	47.46	10.80	39.17	10.34	405	1500	20
GSM410M8-132BGN	47.62	10.82	39.47	10.39	410	1500	20
GSM415M8-132BGN	47.72	10.85	39.83	10.42	415	1500	20
GSM420M8-132BGN	47.82	10.88	40.20	10.45	420	1500	20
GSM425M8-132BGN	47.95	10.90	40.48	10.50	425	1500	20
GSM430M8-132BGN	48.09	10.92	40.84	10.53	430	1500	20
GSM435M8-132BGN	48.18	10.95	41.16	10.57	435	1500	20
GSM440M8-132BGN	48.26	10.98	41.44	10.62	440	1500	20
GSM365M8-120BGN	44.17	10.42	36.87	9.92	365	1500	20
GSM370M8-120BGN	44.27	10.52	36.96	10.03	370	1500	20
GSM375M8-120BGN	44.37	10.62	37.02	10.15	375	1500	20
GSM380M8-120BGN	44.47	10.72	37.09	10.27	380	1500	20
GSM385M8-120BGN	44.57	10.82	37.15	10.37	385	1500	20
GSM390M8-120BGN	44.67	10.92	37.23	10.49	390	1500	20

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CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 4 of 10

CERTIFICATE NO.: CQC22024362054

PAPER:

GSM395M8-120BGN	44.77	11.02	37.32	10.60	395	1500	20
GSM400M8-120BGN	44.87	11.12	37.43	10.70	400	1500	20
GSM490M8-156BGB	57.86	10.64	47.72	10.27	490	1500	20
GSM495M8-156BGB	57.93	10.66	48.02	10.31	495	1500	20
GSM500M8-156BGB	58.01	10.67	48.36	10.34	500	1500	20
GSM505M8-156BGB	58.04	10.70	48.61	10.39	505	1500	20
GSM510M8-156BGB	58.15	10.71	48.95	10.42	510	1500	20
GSM515M8-156BGB	58.19	10.73	49.24	10.46	515	1500	20
GSM520M8-156BGB	58.21	10.76	49.53	10.50	520	1500	20
GSM450M8-144BGB	51.46	10.76	44.60	10.09	450	1500	20
GSM455M8-144BGB	51.86	10.78	44.97	10.12	455	1500	20
GSM460M8-144BGB	52.28	10.80	45.37	10.14	460	1500	20
GSM465M8-144BGB	52.68	10.82	45.77	10.16	465	1500	20
GSM470M8-144BGB	53.09	10.84	46.17	10.18	470	1500	20
GSM475M8-144BGB	53.49	10.86	46.57	10.20	475	1500	20
GSM480M8-144BGB	53.88	10.88	46.97	10.22	480	1500	20
GSM410M8-132BGB	46.88	10.76	40.64	10.09	410	1500	20
GSM415M8-132BGB	47.31	10.78	41.01	10.12	415	1500	20
GSM420M8-132BGB	47.73	10.80	41.43	10.14	420	1500	20
GSM425M8-132BGB	48.15	10.82	41.84	10.16	425	1500	20

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CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

**APPENDIX**

**Page 5 of 10**

**CERTIFICATE NO.: CQC22024362054**

**PAPER:**

GSM430M8-132BGB	48.57	10.84	42.24	10.18	430	1500	20
GSM435M8-132BGB	48.99	10.86	42.65	10.20	435	1500	20
GSM440M8-132BGB	49.39	10.88	43.06	10.22	440	1500	20
GSM375M8-120BGB	42.75	10.78	37.10	10.11	375	1500	20
GSM380M8-120BGB	43.19	10.80	37.48	10.14	380	1500	20
GSM385M8-120BGB	43.62	10.82	37.90	10.16	385	1500	20
GSM390M8-120BGB	44.05	10.84	38.32	10.18	390	1500	20
GSM395M8-120BGB	44.48	10.86	38.73	10.20	395	1500	20
GSM400M8-120BGB	44.90	10.88	39.14	10.22	400	1500	20
GSM490M8-156BGN	57.46	10.47	48.52	10.10	490	1500	20
GSM495M8-156BGN	57.87	10.49	48.87	10.13	495	1500	20
GSM500M8-156BGN	58.27	10.51	49.27	10.15	500	1500	20
GSM505M8-156BGN	58.67	10.53	49.66	10.17	505	1500	20
GSM510M8-156BGN	59.07	10.55	50.05	10.19	510	1500	20
GSM515M8-156BGN	59.46	10.57	50.45	10.21	515	1500	20
GSM520M8-156BGN	59.85	10.59	50.84	10.23	520	1500	20
GSM490M8-156BG	57.86	10.64	47.72	10.27	490	1500	20
GSM495M8-156BG	57.93	10.66	48.02	10.31	495	1500	20
GSM500M8-156BG	58.01	10.67	48.36	10.34	500	1500	20
GSM505M8-156BG	58.04	10.70	48.61	10.39	505	1500	20

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**CHINA QUALITY CERTIFICATION CENTRE**





# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 6 of 10

CERTIFICATE NO.: CQC22024362054

PAPER:

GSM510M8-156BG	58.15	10.71	48.95	10.42	510	1500	20
GSM515M8-156BG	58.19	10.73	49.24	10.46	515	1500	20
GSM520M8-156BG	58.21	10.76	49.53	10.50	520	1500	20
GSM670M12-132BG	49.18	17.07	41.19	16.27	670	1500	30
GSM675M12-132BG	49.34	17.13	41.34	16.33	675	1500	30
GSM680M12-132BG	49.50	17.19	41.49	16.39	680	1500	30
GSM685M12-132BG	49.66	17.25	41.65	16.45	685	1500	30
GSM690M12-132BG	49.82	17.31	41.80	16.51	690	1500	30
GSM695M12-132BG	49.98	17.37	41.95	16.57	695	1500	30
GSM700M12-132BG	50.13	17.43	42.10	16.63	700	1500	30
GSM605M12-120BG	44.41	17.07	37.19	16.27	605	1500	30
GSM610M12-120BG	44.59	17.13	37.36	16.33	610	1500	30
GSM615M12-120BG	44.77	17.19	37.53	16.39	615	1500	30
GSM620M12-120BG	44.95	17.25	37.69	16.45	620	1500	30
GSM625M12-120BG	45.13	17.31	37.86	16.51	625	1500	30
GSM630M12-120BG	45.30	17.37	38.03	16.57	630	1500	30
GSM635M12-120BG	45.48	17.43	38.19	16.63	635	1500	30
GSM555M12-110BG	40.57	17.13	33.99	16.33	555	1500	30
GSM560M12-110BG	40.77	17.19	34.17	16.39	560	1500	30
GSM565M12-110BG	40.96	17.25	34.35	16.45	565	1500	30

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 7 of 10

CERTIFICATE NO.: CQC22024362054

PAPER:

GSM570M12-110BG	41.16	17.31	34.53	16.51	570	1500	30
GSM575M12-110BG	41.35	17.37	34.71	16.57	575	1500	30
GSM580M12-110BG	41.54	17.43	34.88	16.63	580	1500	30
GSM440M8-144BGD	52.70	10.34	44.45	9.92	440	1500	20
GSM445M8-144BGD	52.83	10.40	44.65	9.98	445	1500	20
GSM450M8-144BGD	52.96	10.46	44.85	10.05	450	1500	20
GSM455M8-144BGD	53.09	10.52	45.04	10.12	455	1500	20
GSM460M8-144BGD	53.22	10.58	45.24	10.18	460	1500	20
GSM465M8-144BGD	53.35	10.64	45.44	10.24	465	1500	20
GSM470M8-144BGD	53.48	10.70	45.66	10.30	470	1500	20
GSM475M8-144BGD	53.61	10.76	45.86	10.36	475	1500	20
GSM480M8-144BGD	53.74	10.82	46.08	10.43	480	1500	20
GSM485M8-144BGD	54.00	10.88	46.20	10.50	485	1500	20
GSM490M8-144BGD	54.25	10.94	46.36	10.57	490	1500	20
GSM495M8-144BGD	54.50	11.00	46.53	10.64	495	1500	20
GSM500M8-144BGD	54.75	11.06	46.69	10.71	500	1500	20
GSM405M8-132BGD	48.31	10.61	39.63	10.22	405	1500	20
GSM410M8-132BGD	48.47	10.63	39.97	10.26	410	1500	20
GSM415M8-132BGD	48.62	10.65	40.30	10.30	415	1500	20
GSM420M8-132BGD	48.80	10.66	40.66	10.33	420	1500	20

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CHINA QUALITY CERTIFICATION CENTRE





# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 8 of 10

CERTIFICATE NO.: CQC22024362054

PAPER:

GSM425M8-132BGD	48.90	10.69	40.95	10.38	425	1500	20
GSM430M8-132BGD	49.08	10.70	41.31	10.41	430	1500	20
GSM435M8-132BGD	49.21	10.72	41.63	10.45	435	1500	20
GSM440M8-132BGD	49.29	10.75	41.95	10.49	440	1500	20
GSM445M8-132BGD	49.71	10.78	42.27	10.53	445	1500	20
GSM450M8-132BGD	50.12	10.81	42.58	10.57	450	1500	20
GSM455M8-132BGD	50.53	10.84	42.89	10.61	455	1500	20
GSM365M8-120BGD	43.83	10.32	36.90	9.91	365	1500	20
GSM370M8-120BGD	43.96	10.38	37.11	9.98	370	1500	20
GSM375M8-120BGD	44.09	10.44	37.31	10.06	375	1500	20
GSM380M8-120BGD	44.22	10.50	37.52	10.14	380	1500	20
GSM385M8-120BGD	44.35	10.56	37.70	10.22	385	1500	20
GSM390M8-120BGD	44.48	10.62	37.91	10.30	390	1500	20
GSM395M8-120BGD	44.61	10.68	38.16	10.36	395	1500	20
GSM400M8-120BGD	44.74	10.74	38.36	10.44	400	1500	20
GSM405M8-120BGD	45.04	10.80	38.50	10.52	405	1500	20
GSM410M8-120BGD	45.34	10.86	38.68	10.60	410	1500	20
GSM415M8-120BGD	45.64	10.92	38.86	10.68	415	1500	20
GSM440M8-144BGS	53.08	10.44	44.33	9.94	440	1500	20
GSM445M8-144BGS	53.18	10.54	44.39	10.04	445	1500	20

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CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

**APPENDIX**

**Page 9 of 10**

**CERTIFICATE NO.: CQC22024362054**

**PAPER:**

GSM450M8-144BGS	53.28	10.64	44.45	10.14	450	1500	20
GSM455M8-144BGS	53.38	10.74	44.51	10.24	455	1500	20
GSM460M8-144BGS	53.48	10.84	44.57	10.34	460	1500	20
GSM465M8-144BGS	53.58	10.94	44.63	10.43	465	1500	20
GSM470M8-144BGS	53.68	11.04	44.69	10.53	470	1500	20
GSM475M8-144BGS	53.78	11.14	44.75	10.63	475	1500	20
GSM480M8-144BGS	53.88	11.24	44.81	10.73	480	1500	20
GSM405M8-132BGS	47.46	10.80	39.17	10.34	405	1500	20
GSM410M8-132BGS	47.62	10.82	39.47	10.39	410	1500	20
GSM415M8-132BGS	47.72	10.85	39.83	10.42	415	1500	20
GSM420M8-132BGS	47.82	10.88	40.20	10.45	420	1500	20
GSM425M8-132BGS	47.95	10.90	40.48	10.50	425	1500	20
GSM430M8-132BGS	48.09	10.92	40.84	10.53	430	1500	20
GSM435M8-132BGS	48.18	10.95	41.16	10.57	435	1500	20
GSM440M8-132BGS	48.26	10.98	41.44	10.62	440	1500	20
GSM365M8-120BGS	44.17	10.42	36.87	9.92	365	1500	20
GSM370M8-120BGS	44.27	10.52	36.96	10.03	370	1500	20
GSM375M8-120BGS	44.37	10.62	37.02	10.15	375	1500	20
GSM380M8-120BGS	44.47	10.72	37.09	10.27	380	1500	20
GSM385M8-120BGS	44.57	10.82	37.15	10.37	385	1500	20

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**CHINA QUALITY CERTIFICATION CENTRE**



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

**APPENDIX**

**Page 10 of 10**

**CERTIFICATE NO.: CQC22024362054**

**PAPER:**

GSM390M8-120BGS	44.67	10.92	37.23	10.49	390	1500	20
GSM395M8-120BGS	44.77	11.02	37.32	10.60	395	1500	20
GSM400M8-120BGS	44.87	11.12	37.43	10.70	400	1500	20
GSM295M8-096BGS	34.20	10.84	28.34	10.41	295	1500	20
GSM300M8-096BGS	34.43	10.87	28.74	10.44	300	1500	20
GSM305M8-096BGS	34.66	10.90	29.14	10.47	305	1500	20
GSM310M8-096BGS	34.91	10.92	29.47	10.52	310	1500	20
GSM315M8-096BGS	35.17	10.94	29.86	10.55	315	1500	20
GSM320M8-096BGS	35.40	10.97	30.22	10.59	320	1500	20

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**CHINA QUALITY CERTIFICATION CENTRE**