



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

CERTIFICATE NO.: CQC21024283318

Valid from: Jul.18,2023

Valid until:long-term

<b>NAME AND REGISTERED ADDRESS OF THE APPLICANT</b>	Chinaland Solar Energy Co.,Ltd Feidong New Town Development Zone,Hefei City in Anhui province
<b>NAME AND REGISTERED ADDRESS OF THE MANUFACTURER</b>	Chinaland Solar Energy Co.,Ltd Feidong New Town Development Zone,Hefei City in Anhui province
<b>NAME AND LOCATION OF THE FACTORY</b>	Chinaland Solar Energy Co.,Ltd No. 7 Linquan East Road, Feidong Economic Development Zone, Hefei City, Anhui Province
<b>PRODUCT NAME, MODEL AND SPECIFICATION</b>	Mono Crystalline Silicon Photovoltaic (PV) Module(s) See Appendix
<b>THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS</b>	IEC 61730-1:2016;IEC61730-2:2016
<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.

Date of original issued: Feb.23,2021

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body.

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 8

CERTIFICATE NO.: CQC21024283318

PAPER:

组件型号	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmax [W]	系统电压 [V]	额定熔断电流[A]
SUN420-72MD-H6S	48.7±5%	40.2	10.92±5%	10.45	420±5%	1500	20
SUN425-72MD-H6S	48.9±5%	40.4	10.99±5%	10.52	425±5%	1500	20
SUN430-72MD-H6S	49.1±5%	40.6	11.07±5%	10.59	430±5%	1500	20
SUN435-72MD-H6S	49.2±5%	40.8	11.14±5%	10.66	435±5%	1500	20
SUN440-72MD-H6S	49.4±5%	41	11.21±5%	10.73	440±5%	1500	20
SUN445-72MD-H6S	49.7±5%	41.2	11.29±5%	10.8	445±5%	1500	20
SUN450-72MD-H6S	50.0±5%	41.4	11.36±5%	10.87	450±5%	1500	20
SUN455-72MD-H6S	50.3±5%	41.6	11.43±5%	10.94	455±5%	1500	20
SUN400-66MD-H6S	45.3±5%	37.4	11.18±5%	10.7	400±5%	1500	20
SUN405-66MD-H6S	45.6±5%	37.6	11.25±5%	10.77	405±5%	1500	20
SUN410-66MD-H6S	45.9±5%	37.8	11.34±5%	10.85	410±5%	1500	20
SUN415-66MD-H6S	46.2±5%	38	11.41±5%	10.92	415±5%	1500	20
SUN350-60MD-H6S	40.3±5%	33.6	10.89±5%	10.42	350±5%	1500	20
SUN355-60MD-H6S	40.6±5%	33.8	10.99±5%	10.5	355±5%	1500	20
SUN360-60MD-H6S	40.9±5%	34	11.08±5%	10.59	360±5%	1500	20

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



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

**APPENDIX**

**Page 2 of 8**

**CERTIFICATE NO.: CQC21024283318**

**PAPER:**

SUN365-60MD-H6S	41.1±5%	34.2	11.16±5%	10.67	365±5%	1500	20
SUN370-60MD-H6S	41.3±5%	34.4	11.26±5%	10.76	370±5%	1500	20
SUN375-60MD-H6S	41.5±5%	34.6	11.34±5%	10.84	375±5%	1500	20
SUN380-60MD-H6S	41.7±5%	34.8	11.42±5%	10.92	380±5%	1500	20
SUN430-78MD-HFS	53.2±5%	43.6	10.40±5%	9.86	430±5%	1500	20
SUN435-78MD-HFS	53.5±5%	43.8	10.48±5%	9.93	435±5%	1500	20
SUN440-78MD-HFS	53.8±5%	43.9	10.57±5%	10.02	440±5%	1500	20
SUN445-78MD-HFS	54.1±5%	44.1	10.64±5%	10.09	445±5%	1500	20
SUN400-72MD-HFS	49.7±5%	40.6	10.31±5%	9.85	400±5%	1500	20
SUN405-72MD-HFS	49.9±5%	40.8	10.40±5%	9.93	405±5%	1500	20
SUN410-72MD-HFS	50.2±5%	41	10.47±5%	10	410±5%	1500	20
SUN415-72MD-HFS	50.4±5%	41.2	10.56±5%	10.07	415±5%	1500	20
SUN330-60MD-HFS	41.6±5%	33.8	10.30±5%	9.76	330±5%	1500	20
SUN335-60MD-HFS	41.8±5%	34	10.39±5%	9.85	335±5%	1500	20
SUN340-60MD-HFS	42.0±5%	34.2	10.48±5%	9.94	340±5%	1500	20
SUN345-60MD-HFS	42.3±5%	34.4	10.57±5%	10.03	345±5%	1500	20
SUN525-72MD-H8S	49.2±5%	41.4	13.51±5%	12.68	525±5%	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 3 of 8

CERTIFICATE NO.: CQC21024283318

PAPER:

SUN530-72MD-H8S	49.4±5%	41.6	13.58±5%	12.75	530±5%	1500	30
SUN535-72MD-H8S	49.6±5%	41.8	13.63±5%	12.8	535±5%	1500	30
SUN540-72MD-H8S	49.8±5%	42	13.70±5%	12.86	540±5%	1500	30
SUN545-72MD-H8S	50.0±5%	42.2	13.76±5%	12.92	545±5%	1500	30
SUN550-72MD-H8S	50.2±5%	42.4	13.82±5%	12.98	550±5%	1500	30
SUN555-72MD-H8S	50.5±5%	42.6	13.88±5%	13.03	555±5%	1500	30
SUN560-72MD-H8S	50.7±5%	42.8	13.94±5%	13.09	560±5%	1500	30
SUN480-66MD-H8S	45.1±5%	37.9	13.50±5%	12.67	480±5%	1500	30
SUN485-66MD-H8S	45.3±5%	38.1	13.57±5%	12.73	485±5%	1500	30
SUN490-66MD-H8S	45.5±5%	38.3	13.64±5%	12.8	490±5%	1500	30
SUN495-66MD-H8S	45.7±5%	38.5	13.69±5%	12.86	495±5%	1500	30
SUN500-66MD-H8S	45.9±5%	38.7	13.76±5%	12.92	500±5%	1500	30
SUN505-66MD-H8S	46.1±5%	38.9	13.82±5%	12.98	505±5%	1500	30
SUN510-66MD-H8S	46.4±5%	39.1	13.89±5%	13.05	510±5%	1500	30
SUN515-66MD-H8S	46.6±5%	39.3	13.95±5%	13.11	515±5%	1500	30
SUN440-60MD-H8S	41.2±5%	34.6	13.55±5%	12.72	440±5%	1500	30
SUN445-60MD-H8S	41.4±5%	34.8	13.63±5%	12.79	445±5%	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 4 of 8

CERTIFICATE NO.: CQC21024283318

PAPER:

SUN450-60MD-H8S	41.6±5%	35	13.70±5%	12.86	450±5%	1500	30
SUN455-60MD-H8S	41.8±5%	35.2	13.77±5%	12.93	455±5%	1500	30
SUN460-60MD-H8S	42.0±5%	35.4	13.85±5%	13	460±5%	1500	30
SUN465-60MD-H8S	42.3±5%	35.6	13.91±5%	13.06	465±5%	1500	30
SUN390-54MD-H8S	36.7±5%	30.7	13.54±5%	12.71	390±5%	1500	30
SUN395-54MD-H8S	36.9±5%	30.9	13.62±5%	12.79	395±5%	1500	30
SUN400-54MD-H8S	37.1±5%	31.1	13.70±5%	12.86	400±5%	1500	30
SUN405-54MD-H8S	37.4±5%	31.3	13.77±5%	12.94	405±5%	1500	30
SUN410-54MD-H8S	37.6±5%	31.5	13.85±5%	13.02	410±5%	1500	30
SUN415-54MD-H8S	37.9±5%	31.7	13.93±5%	13.09	415±5%	1500	30
SUN420-54MD-H8S	38.1±5%	31.9	14.01±5%	13.17	420±5%	1500	30
SUN640-66MD-H12S	44.8±5%	37.2	18.21±5%	17.2	640±5%	1500	35
SUN645-66MD-H12S	45.0±5%	37.3	18.32±5%	17.3	645±5%	1500	35
SUN650-66MD-H12S	45.2±5%	37.5	18.35±5%	17.34	650±5%	1500	35
SUN655-66MD-H12S	45.4±5%	37.7	18.39±5%	17.38	655±5%	1500	35
SUN660-66MD-H12S	45.6±5%	37.9	18.44±5%	17.42	660±5%	1500	35
SUN665-66MD-H12S	45.8±5%	38.1	18.48±5%	17.46	665±5%	1500	35

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



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 5 of 8

CERTIFICATE NO.: CQC21024283318

PAPER:

SUN670-66MD-H12S	46.0±5%	38.3	18.51±5%	17.5	670±5%	1500	35
SUN675-66MD-H12S	46.2±5%	38.5	18.57±5%	17.53	675±5%	1500	35
SUN580-60MD-H12S	40.7±5%	33.8	18.18±5%	17.16	580±5%	1500	35
SUN585-60MD-H12S	40.9±5%	33.9	18.29±5%	17.26	585±5%	1500	35
SUN590-60MD-H12S	41.1±5%	34.1	18.33±5%	17.3	590±5%	1500	35
SUN595-60MD-H12S	41.3±5%	34.2	18.43±5%	17.4	595±5%	1500	35
SUN600-60MD-H12S	41.5±5%	34.3	18.53±5%	17.5	600±5%	1500	35
SUN605-60MD-H12S	41.7±5%	34.5	18.58±5%	17.54	605±5%	1500	35
SUN610-60MD-H12S	41.9±5%	34.7	18.62±5%	17.58	610±5%	1500	35
SUN615-60MD-H12S	42.1±5%	34.9	18.68±5%	17.63	615±5%	1500	35
SUN520-54MD-H12S	36.6±5%	30.3	18.19±5%	17.17	520±5%	1500	35
SUN525-54MD-H12S	36.8±5%	30.5	18.23±5%	17.21	525±5%	1500	35
SUN530-54MD-H12S	37.0±5%	30.7	18.28±5%	17.27	530±5%	1500	35
SUN535-54MD-H12S	37.2±5%	30.9	18.33±5%	17.31	535±5%	1500	35
SUN540-54MD-H12S	37.5±5%	31.1	18.38±5%	17.36	540±5%	1500	35
SUN545-54MD-H12S	37.7±5%	31.3	18.45±5%	17.42	545±5%	1500	35
SUN550-54MD-H12S	37.9±5%	31.5	18.49±5%	17.46	550±5%	1500	35

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



CHINA QUALITY CERTIFICATION CENTRE





# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

**APPENDIX**

**Page 6 of 8**

**CERTIFICATE NO.: CQC21024283318**

**PAPER:**

SUN670-66MD-H12JS	48.7±5%	41.7	17.08±5%	16.07	670±5%	1500	35
SUN675-66MD-H12JS	49.0±5%	41.9	17.12±5%	16.11	675±5%	1500	35
SUN680-66MD-H12JS	49.2±5%	42.1	17.17±5%	16.15	680±5%	1500	35
SUN685-66MD-H12JS	49.4±5%	42.3	17.22±5%	16.2	685±5%	1500	35
SUN690-66MD-H12JS	49.6±5%	42.5	17.26±5%	16.24	690±5%	1500	35
SUN695-66MD-H12JS	49.8±5%	42.7	17.31±5%	16.28	695±5%	1500	35
SUN700-66MD-H12JS	50.0±5%	42.9	17.35±5%	16.32	700±5%	1500	35
SUN610-60MD-H12JS	44.3±5%	37.9	17.11±5%	16.1	610±5%	1500	35
SUN615-60MD-H12JS	44.5±5%	38.1	17.16±5%	16.14	615±5%	1500	35
SUN620-60MD-H12JS	44.7±5%	38.3	17.21±5%	16.19	620±5%	1500	35
SUN625-60MD-H12JS	44.9±5%	38.5	17.25±5%	16.23	625±5%	1500	35
SUN630-60MD-H12JS	45.1±5%	38.7	17.31±5%	16.28	630±5%	1500	35
SUN635-60MD-H12JS	45.3±5%	38.9	17.35±5%	16.32	635±5%	1500	35
SUN545-54MD-H12JS	39.8±5%	34.1	17.00±5%	15.99	545±5%	1500	35
SUN550-54MD-H12JS	40.0±5%	34.3	17.05±5%	16.04	550±5%	1500	35
SUN555-54MD-H12JS	40.2±5%	34.5	17.11±5%	16.09	555±5%	1500	35
SUN560-54MD-H12JS	40.4±5%	34.7	17.16±5%	16.14	560±5%	1500	35

**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 8

CERTIFICATE NO.: CQC21024283318

PAPER:

SUN565-54MD-H12JS	40.6±5%	34.9	17.21±5%	16.19	565±5%	1500	35
SUN570-54MD-H12JS	40.8±5%	35.1	17.26±5%	16.24	570±5%	1500	35
SUN555-72MD-H8NS	50.57±5%	42.03	13.96±5%	13.21	555±5%	1500	30
SUN560-72MD-H8NS	50.72±5%	42.18	14.04±5%	13.28	560±5%	1500	30
SUN565-72MD-H8NS	50.87±5%	42.33	14.11±5%	13.35	565±5%	1500	30
SUN570-72MD-H8NS	51.02±5%	42.48	14.18±5%	13.42	570±5%	1500	30
SUN575-72MD-H8NS	51.17±5%	42.63	14.26±5%	13.49	575±5%	1500	30
SUN580-72MD-H8NS	51.32±5%	42.78	14.33±5%	13.56	580±5%	1500	30
SUN585-72MD-H8NS	51.47±5%	42.93	14.39±5%	13.63	585±5%	1500	30
SUN510-66MD-H8NS	46.38±5%	38.56	13.98±5%	13.23	510±5%	1500	30
SUN515-66MD-H8NS	46.53±5%	38.71	14.07±5%	13.31	515±5%	1500	30
SUN520-66MD-H8NS	46.68±5%	38.86	14.14±5%	13.38	520±5%	1500	30
SUN525-66MD-H8NS	46.83±5%	39.01	14.23±5%	13.46	525±5%	1500	30
SUN530-66MD-H8NS	46.98±5%	39.16	14.31±5%	13.54	530±5%	1500	30
SUN535-66MD-H8NS	47.13±5%	39.31	14.39±5%	13.61	535±5%	1500	30
SUN460-60MD-H8NS	42.34±5%	35.03	13.89±5%	13.14	460±5%	1500	30
SUN465-60MD-H8NS	42.49±5%	35.18	13.98±5%	13.22	465±5%	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 8 of 8**

**CERTIFICATE NO.: CQC21024283318**

**PAPER:**

SUN470-60MD-H8NS	42.64±5%	35.33	14.09±5%	13.31	470±5%	1500	30
SUN475-60MD-H8NS	42.79±5%	35.48	14.16±5%	13.39	475±5%	1500	30
SUN480-60MD-H8NS	42.94±5%	35.63	14.26±5%	13.48	480±5%	1500	30
SUN485-60MD-H8NS	43.09±5%	35.78	14.34±5%	13.56	485±5%	1500	30
SUN415-54MD-H8NS	38.11±5%	31.54	13.91±5%	13.16	415±5%	1500	30
SUN420-54MD-H8NS	38.26±5%	31.69	14.02±5%	13.26	420±5%	1500	30
SUN425-54MD-H8NS	38.41±5%	31.84	14.12±5%	13.35	425±5%	1500	30
SUN430-54MD-H8NS	38.56±5%	31.99	14.21±5%	13.44	430±5%	1500	30
SUN435-54MD-H8NS	38.71±5%	32.14	14.32±5%	13.54	435±5%	1500	30
SUN440-54MD-H8NS	38.86±5%	32.29	14.41±5%	13.63	440±5%	1500	30

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



**CHINA QUALITY CERTIFICATION CENTRE**