



CERTIFICATE OF PRODUCT CERTIFICATION

SOLAR PRODUCT CERTIFICATE

CERTIFICATE NO.: CQC21024319711

Valid from: Mar.07,2023

Valid until:long-term

NAME AND REGISTERED ADDRESS OF THE APPLICANT Tongwei Solar (Hefei) Co., Ltd.
No.888, Changning Road, High-tech District, Hefei City, Anhui Province, 230088, P.R. China

NAME AND REGISTERED ADDRESS OF THE MANUFACTURER Tongwei Solar (Hefei) Co., Ltd.
No.888, Changning Road, High-tech District, Hefei City, Anhui Province, 230088, P.R. China

NAME AND LOCATION OF THE FACTORY Tongwei Solar (Hefei) Co., Ltd.
NO.888 Changning Road, High-tech District, Hefei, Anhui,P.R.China

PRODUCT NAME, MODEL AND SPECIFICATION PV modules
See Appendix

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS IEC 61730-1:2016;IEC61730-2:2016

TYPE OF CERTIFICATION SCHEMES 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: Nov.05,2021

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



SIGNATURE:

谢肇煦



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组件型号	Voc [V]	Isc [A]	Vmp [V]	Imp [A]	Pmax [W]	系统电 压 [V]	额定熔断 电流[A]
TH390CM5-72SD	44.20	11.19	36.69	10.66	390	1500	20
TH385CM5-72SD	44.10	11.13	36.60	10.55	385	1500	20
TH380CM5-72SD	44.10	11.03	36.60	10.41	380	1500	20
TH375CM5-72SD	44.00	10.98	36.52	10.30	375	1500	20
TH370CM5-72SD	43.90	10.86	36.44	10.18	370	1500	20
TH365CM5-72SD	43.60	10.62	36.19	10.11	365	1500	20
TH360CM5-72SD	43.40	10.55	36.02	10.02	360	1500	20
TH355CM5-72SD	43.20	10.48	35.86	9.93	355	1500	20
TH350CM5-72SD	43.00	10.41	35.69	9.83	350	1500	20
TH325CM5-60SD	44.20	9.33	36.69	8.89	325	1500	20
TH320CM5-60SD	44.10	9.28	36.60	8.77	320	1500	20
TH315CM5-60SD	44.10	9.19	36.60	8.63	315	1500	20
TH310CM5-60SD	44.00	9.15	36.52	8.52	310	1500	20
TH305CM5-60SD	43.90	9.05	36.44	8.40	305	1500	20
TH300CM5-60SD	43.20	8.90	35.86	8.39	300	1500	20

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TH295CM5-60SD	43.00	8.83	35.69	8.29	295	1500	20
TH290CM5-60SD	42.80	8.76	35.52	8.19	290	1500	20
TH410PM5-72SD	45.30	11.43	37.50	10.93	410	1500	20
TH405PM5-72SD	45.30	11.39	37.40	10.83	405	1500	20
TH400PM5-72SD	45.20	11.35	37.30	10.72	400	1500	20
TH395PM5-72SD	45.20	11.31	37.20	10.62	395	1500	20
TH390PM5-72SD	45.10	11.27	37.10	10.51	390	1500	20
TH440PM5-72SDA	46.50	12.15	38.60	11.43	440	1500	20
TH435PM5-72SDA	46.40	12.11	38.51	11.32	435	1500	20
TH430PM5-72SDA	46.30	12.06	38.43	11.22	430	1500	20
TH425PM5-72SDA	46.20	12.01	38.35	11.11	425	1500	20
TH420PM5-72SDA	46.10	11.96	38.26	11.00	420	1500	20
TH415PM5-72SDA	46.00	11.90	38.18	10.90	415	1500	20
TH410PM5-72SDA	45.90	11.85	38.10	10.79	410	1500	20
TH440PM5-72SDA-F	46.50	12.15	38.60	11.43	440	1500	20
TH435PM5-72SDA-F	46.40	12.11	38.51	11.32	435	1500	20
TH430PM5-72SDA-F	46.30	12.06	38.43	11.22	430	1500	20

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TH425PM5-72SDA-F	46.20	12.01	38.35	11.11	425	1500	20
TH420PM5-72SDA-F	46.10	11.96	38.26	11.00	420	1500	20
TH415PM5-72SDA-F	46.00	11.90	38.18	10.90	415	1500	20
TH410PM5-72SDA-F	45.90	11.85	38.10	10.79	410	1500	20
TH410PMB5-72SD	45.80	11.55	37.50	10.93	410	1500	20
TH405PMB5-72SD	45.70	11.51	37.40	10.83	405	1500	20
TH400PMB5-72SD	45.70	11.47	37.30	10.72	400	1500	20
TH395PMB5-72SD	45.60	11.43	37.20	10.62	395	1500	20
TH390PMB5-72SD	45.60	11.41	37.10	10.51	390	1500	20
TH440PMB5-72SDA	46.50	12.15	37.80	11.64	440	1500	20
TH435PMB5-72SDA	46.40	12.11	37.70	11.54	435	1500	20
TH430PMB5-72SDA	46.30	12.06	37.60	11.44	430	1500	20
TH425PMB5-72SDA	46.20	12.01	37.50	11.33	425	1500	20
TH420PMB5-72SDA	46.10	11.96	37.40	11.23	420	1500	20
TH415PMB5-72SDA	46.00	11.90	37.30	11.13	415	1500	20
TH410PMB5-72SDA	45.90	11.85	37.20	11.02	410	1500	20
TH440PMB5-72SDA-F	46.50	12.15	37.80	11.64	440	1500	20

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TH435PMB5-72SDA-F	46.40	12.11	37.70	11.54	435	1500	20
TH430PMB5-72SDA-F	46.30	12.06	37.60	11.44	430	1500	20
TH425PMB5-72SDA-F	46.20	12.01	37.50	11.33	425	1500	20
TH420PMB5-72SDA-F	46.10	11.96	37.40	11.23	420	1500	20
TH415PMB5-72SDA-F	46.00	11.90	37.30	11.13	415	1500	20
TH410PMB5-72SDA-F	45.90	11.85	37.20	11.02	410	1500	20
TH340PM5-60SD	45.20	9.51	37.40	9.09	340	1500	20
TH335PM5-60SD	45.20	9.49	37.30	8.98	335	1500	20
TH330PM5-60SD	45.10	9.45	37.20	8.87	330	1500	20
TH325PM5-60SD	45.10	9.42	37.10	8.76	325	1500	20
TH365PM5-60SDA	46.60	10.21	37.80	9.66	365	1500	20
TH360PM5-60SDA	46.40	10.11	37.70	9.55	360	1500	20
TH355PM5-60SDA	46.30	10.05	37.60	9.44	355	1500	20
TH350PM5-60SDA	46.20	9.99	37.50	9.33	350	1500	20
TH345PM5-60SDA	46.10	9.93	37.40	9.22	345	1500	20
TH340PM5-60SDA	46.00	9.87	37.30	9.12	340	1500	20
TH365PM5-60SDA-F	46.60	10.21	37.80	9.66	365	1500	20

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TH360PM5-60SDA-F	46.40	10.11	37.70	9.55	360	1500	20
TH355PM5-60SDA-F	46.30	10.05	37.60	9.44	355	1500	20
TH350PM5-60SDA-F	46.20	9.99	37.50	9.33	350	1500	20
TH345PM5-60SDA-F	46.10	9.93	37.40	9.22	345	1500	20
TH340PM5-60SDA-F	46.00	9.87	37.30	9.12	340	1500	20
TH340PMB5-60SD	45.20	9.51	37.40	9.09	340	1500	20
TH335PMB5-60SD	45.20	9.49	37.30	8.98	335	1500	20
TH330PMB5-60SD	45.10	9.45	37.20	8.87	330	1500	20
TH325PMB5-60SD	45.10	9.42	37.10	8.76	325	1500	20
TH365PMB5-60SDA	46.60	10.21	37.90	9.63	365	1500	20
TH360PMB5-60SDA	46.40	10.11	37.70	9.55	360	1500	20
TH355PMB5-60SDA	46.30	10.05	37.60	9.44	355	1500	20
TH350PMB5-60SDA	46.20	9.99	37.50	9.33	350	1500	20
TH345PMB5-60SDA	46.10	9.93	37.40	9.22	345	1500	20
TH340PMB5-60SDA	46.00	9.87	37.30	9.12	340	1500	20
TH365PMB5-60SDA-F	46.60	10.21	37.90	9.63	365	1500	20
TH360PMB5-60SDA-F	46.40	10.11	37.70	9.55	360	1500	20

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TH355PMB5-60SDA-F	46.30	10.05	37.60	9.44	355	1500	20
TH350PMB5-60SDA-F	46.20	9.99	37.50	9.33	350	1500	20
TH345PMB5-60SDA-F	46.10	9.93	37.40	9.22	345	1500	20
TH340PMB5-60SDA-F	46.00	9.87	37.30	9.12	340	1500	20
TH660PMB6-68SDC	46.40	18.26	38.50	17.16	660	1500	30
TH655PMB6-68SDC	46.30	18.15	38.40	17.06	655	1500	30
TH650PMB6-68SDC	46.20	18.03	38.35	16.95	650	1500	30
TH645PMB6-68SDC	46.10	17.93	38.26	16.86	645	1500	30
TH640PMB6-68SDC	46.00	17.83	38.18	16.76	640	1500	30
TH635PMB6-68SDC	45.90	17.73	38.10	16.67	635	1500	30
TH630PMB6-68SDC	45.80	17.63	38.01	16.57	630	1500	30
TH625PMB6-68SDC	45.70	17.53	37.93	16.48	625	1500	30
TH670PMB6-69SDC	47.10	18.26	39.10	17.16	670	1500	30
TH665PMB6-69SDC	47.00	18.16	39.00	17.07	665	1500	30
TH660PMB6-69SDC	46.90	18.06	38.90	16.98	660	1500	30
TH655PMB6-69SDC	46.80	17.97	38.80	16.89	655	1500	30
TH650PMB6-69SDC	46.70	17.84	38.80	16.77	650	1500	30

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TH645PMB6-69SDC	46.60	17.74	38.70	16.68	645	1500	30
TH640PMB6-69SDC	46.50	17.64	38.60	16.58	640	1500	30
TH635PMB6-69SDC	46.40	17.54	38.50	16.49	635	1500	30
TH630PMB6-65SDC	44.40	18.19	36.90	17.10	630	1500	30
TH625PMB6-65SDC	44.30	18.08	36.80	17.00	625	1500	30
TH620PMB6-65SDC	44.20	17.98	36.69	16.90	620	1500	30
TH615PMB6-65SDC	44.10	17.87	36.60	16.81	615	1500	30
TH610PMB6-65SDC	44.00	17.77	36.52	16.72	610	1500	30
TH605PMB6-65SDC	43.90	17.66	36.44	16.63	605	1500	30
TH600PMB6-65SDC	43.90	17.52	36.44	16.47	600	1500	30
TH555PMB6-58SDC	47.20	15.07	39.20	14.17	555	1500	30
TH550PMB6-58SDC	47.10	14.97	39.09	14.07	550	1500	30
TH545PMB6-58SDC	47.00	14.86	39.01	13.98	545	1500	30
TH540PMB6-58SDC	46.90	14.76	38.93	13.89	540	1500	30
TH535PMB6-58SDC	46.80	14.65	38.84	13.79	535	1500	30
TH530PMB6-58SDC	46.70	14.55	38.76	13.67	530	1500	30
TH550PMB6-57SDC	46.40	15.20	38.50	14.29	550	1500	30

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TH545PMB6-57SDC	46.30	15.09	38.40	14.20	545	1500	30
TH540PMB6-57SDC	46.20	14.98	38.30	14.10	540	1500	30
TH535PMB6-57SDC	46.10	14.87	38.30	13.98	535	1500	30
TH530PMB6-57SDC	46.00	14.77	38.20	13.88	530	1500	30
TH525PMB6-57SDC	45.90	14.66	38.10	13.78	525	1500	30
TH520PMB6-57SDC	45.80	14.55	38.00	13.68	520	1500	30
TH525PMB6-54SDC	44.50	15.20	37.00	14.19	525	1500	30
TH520PMB6-54SDC	44.40	15.01	36.90	14.11	520	1500	30
TH515PMB6-54SDC	44.30	14.90	36.77	14.01	515	1500	30
TH510PMB6-54SDC	44.20	14.79	36.69	13.90	510	1500	30
TH505PMB6-54SDC	44.10	14.68	36.60	13.80	505	1500	30
TH500PMB6-54SDC	44.00	14.57	36.52	13.70	500	1500	30
TWMPD-78HD570	53.05	13.83	43.60	13.07	570	1500	30 / 25
TWMPD-78HD575	53.25	13.88	43.80	13.13	575	1500	30 / 25
TWMPD-78HD580	53.45	13.93	44.00	13.18	580	1500	30 / 25
TWMPD-78HD585	53.65	13.98	44.20	13.24	585	1500	30 / 25
TWMPD-78HD590	53.85	14.03	44.40	13.29	590	1500	30 / 25

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TWMPD-78HD595	54.05	14.08	44.60	13.34	595	1500	30 / 25
TWMPD-78HD600	54.25	14.13	44.80	13.39	600	1500	30 / 25
TWMPD-78HD605	54.45	14.18	45.00	13.44	605	1500	30 / 25
TWMPD-78HD610	54.65	14.23	45.20	13.50	610	1500	30 / 25
TWMPD-78HD615	54.85	14.28	45.40	13.55	615	1500	30 / 25
TW570MBAP-156-D	53.05	13.83	43.60	13.07	570	1500	30 / 25
TW575MBAP-156-D	53.25	13.88	43.80	13.13	575	1500	30 / 25
TW580MBAP-156-D	53.45	13.93	44.00	13.18	580	1500	30 / 25
TW585MBAP-156-D	53.65	13.98	44.20	13.24	585	1500	30 / 25
TW590MBAP-156-D	53.85	14.03	44.40	13.29	590	1500	30 / 25
TW595MBAP-156-D	54.05	14.08	44.60	13.34	595	1500	30 / 25
TW600MBAP-156-D	54.25	14.13	44.80	13.39	600	1500	30 / 25
TW605MBAP-156-D	54.45	14.18	45.00	13.44	605	1500	30 / 25
TW610MBAP-156-D	54.65	14.23	45.20	13.50	610	1500	30 / 25
TW615MBAP-156-D	54.85	14.28	45.40	13.55	615	1500	30 / 25
TW570MBGP-156-D	53.05	13.83	43.60	13.07	570	1500	30 / 25
TW575MBGP-156-D	53.25	13.88	43.80	13.13	575	1500	30 / 25

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TW580MBGP-156-D	53.45	13.93	44.00	13.18	580	1500	30 / 25
TW585MBGP-156-D	53.65	13.98	44.20	13.24	585	1500	30 / 25
TW590MBGP-156-D	53.85	14.03	44.40	13.29	590	1500	30 / 25
TW595MBGP-156-D	54.05	14.08	44.60	13.34	595	1500	30 / 25
TW600MBGP-156-D	54.25	14.13	44.80	13.39	600	1500	30 / 25
TWMPD-72HD525	49.10	13.63	40.96	12.82	525	1500	30 / 25
TWMPD-72HD530	49.30	13.68	41.16	12.88	530	1500	30 / 25
TWMPD-72HD535	49.50	13.73	41.36	12.94	535	1500	30 / 25
TWMPD-72HD540	49.70	13.78	41.56	13.00	540	1500	30 / 25
TWMPD-72HD545	49.90	13.83	41.76	13.05	545	1500	30 / 25
TWMPD-72HD550	50.10	13.88	41.96	13.11	550	1500	30 / 25
TWMPD-72HD555	50.30	13.93	42.16	13.16	555	1500	30 / 25
TWMPD-72HD560	50.50	13.98	42.36	13.21	560	1500	30 / 25
TWMPD-72HD565	50.70	14.03	42.56	13.29	560	1500	30 / 25
TW525MBAP-144-D	49.10	13.63	40.96	12.82	525	1500	30 / 25
TW530MBAP-144-D	49.30	13.68	41.16	12.88	530	1500	30 / 25
TW535MBAP-144-D	49.50	13.73	41.36	12.94	535	1500	30 / 25

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TW540MBAP-144-D	49.70	13.78	41.56	13.00	540	1500	30 / 25
TW545MBAP-144-D	49.90	13.83	41.76	13.05	545	1500	30 / 25
TW550MBAP-144-D	50.10	13.88	41.96	13.11	550	1500	30 / 25
TW555MBAP-144-D	50.30	13.93	42.16	13.16	555	1500	30 / 25
TW560MBAP-144-D	50.50	13.98	42.36	13.21	560	1500	30 / 25
TW565MBAP-144-D	50.70	14.03	42.56	13.29	560	1500	30 / 25
TW525MBGP-144-D	49.10	13.63	40.96	12.82	525	1500	30 / 25
TW530MBGP-144-D	49.30	13.68	41.16	12.88	530	1500	30 / 25
TW535MBGP-144-D	49.50	13.73	41.36	12.94	535	1500	30 / 25
TW540MBGP-144-D	49.70	13.78	41.56	13.00	540	1500	30 / 25
TW545MBGP-144-D	49.90	13.83	41.76	13.05	545	1500	30 / 25
TW550MBGP-144-D	50.10	13.88	41.96	13.11	550	1500	30 / 25
TWMPD-66HD480	45.00	13.62	37.52	12.79	480	1500	30 / 25
TWMPD-66HD485	45.20	13.67	37.69	12.87	485	1500	30 / 25
TWMPD-66HD490	45.40	13.72	37.86	12.94	490	1500	30 / 25
TWMPD-66HD495	45.60	13.77	38.03	13.02	495	1500	30 / 25
TWMPD-66HD500	45.80	13.82	38.20	13.09	500	1500	30 / 25

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TWMPD-66HD505	46.00	13.87	38.37	13.16	505	1500	30 / 25
TWMPD-66HD510	46.20	13.92	38.54	13.23	510	1500	30 / 25
TWMPD-66HD515	46.40	13.97	38.71	13.30	515	1500	30 / 25
TWMPD-66HD520	46.60	14.02	38.88	13.37	520	1500	30 / 25
TW485MBAP-132-D	45.20	13.67	37.69	12.87	485	1500	30 / 25
TW490MBAP-132-D	45.40	13.72	37.86	12.94	490	1500	30 / 25
TW495MBAP-132-D	45.60	13.77	38.03	13.02	495	1500	30 / 25
TW500MBAP-132-D	45.80	13.82	38.20	13.09	500	1500	30 / 25
TW505MBAP-132-D	46.00	13.87	38.37	13.16	505	1500	30 / 25
TW510MBAP-132-D	46.20	13.92	38.54	13.23	510	1500	30 / 25
TW515MBAP-132-D	46.40	13.97	38.71	13.30	515	1500	30 / 25
TW520MBAP-132-D	46.60	14.02	38.88	13.37	520	1500	30 / 25
TW480MBGP-132-D	45.00	13.62	37.52	12.79	480	1500	30 / 25
TW485MBGP-132-D	45.20	13.67	37.69	12.87	485	1500	30 / 25
TW490MBGP-132-D	45.40	13.72	37.86	12.94	490	1500	30 / 25
TW495MBGP-132-D	45.60	13.77	38.03	13.02	495	1500	30 / 25
TW500MBGP-132-D	45.80	13.82	38.20	13.09	500	1500	30 / 25

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TW505MBGP-132-D	46.00	13.87	38.37	13.16	505	1500	30 / 25
TWMPD-60HD440	41.10	13.65	34.26	12.84	440	1500	30 / 25
TWMPD-60HD445	41.30	13.70	34.43	12.92	445	1500	30 / 25
TWMPD-60HD450	41.50	13.75	34.60	13.01	450	1500	30 / 25
TWMPD-60HD455	41.70	13.80	34.77	13.09	455	1500	30 / 25
TWMPD-60HD460	41.90	13.85	34.94	13.17	460	1500	30 / 25
TWMPD-60HD465	42.10	13.90	35.11	13.24	465	1500	30 / 25
TWMPD-60HD470	42.30	13.95	35.28	13.32	470	1500	30 / 25
TW440MBAP-120-D	41.10	13.65	34.26	12.84	440	1500	30 / 25
TW445MBAP-120-D	41.30	13.70	34.43	12.92	445	1500	30 / 25
TW450MBAP-120-D	41.50	13.75	34.60	13.01	450	1500	30 / 25
TW455MBAP-120-D	41.70	13.80	34.77	13.09	455	1500	30 / 25
TW460MBAP-120-D	41.90	13.85	34.94	13.17	460	1500	30 / 25
TW465MBAP-120-D	42.10	13.90	35.11	13.24	465	1500	30 / 25
TW470MBAP-120-D	42.30	13.95	35.28	13.32	470	1500	30 / 25
TW440MBGP-120-D	41.10	13.65	34.26	12.84	440	1500	30 / 25
TW445MBGP-120-D	41.30	13.70	34.43	12.92	445	1500	30 / 25

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TW450MBGP-120-D	41.50	13.75	34.60	13.01	450	1500	30 / 25
TW455MBGP-120-D	41.70	13.80	34.77	13.09	455	1500	30 / 25
TW460MBGP-120-D	41.90	13.85	34.94	13.17	460	1500	30 / 25
TWMPD-54HD395	36.93	13.67	30.43	12.98	395	1500	30 / 25
TWMPD-54HD400	37.08	13.77	30.58	13.08	400	1500	30 / 25
TWMPD-54HD405	37.23	13.87	30.73	13.18	405	1500	30 / 25
TWMPD-54HD410	37.38	13.92	30.88	13.28	410	1500	30 / 25
TWMPD-54HD415	37.53	13.95	31.03	13.38	415	1500	30 / 25
TWMPD-54HD420	37.68	13.98	31.18	13.47	420	1500	30 / 25
TWMPD-54HD425	37.83	14.01	31.33	13.58	425	1500	30 / 25
TW400MBAP-108-D	37.08	13.77	30.58	13.08	400	1500	30 / 25
TW405MBAP-108-D	37.23	13.87	30.73	13.18	405	1500	30 / 25
TW410MBAP-108-D	37.38	13.92	30.88	13.28	410	1500	30 / 25
TW415MBAP-108-D	37.53	13.95	31.03	13.38	415	1500	30 / 25
TW420MBAP-108-D	37.68	13.98	31.18	13.47	420	1500	30 / 25
TW425MBAP-108-D	37.83	14.01	31.33	13.58	425	1500	30 / 25
TW395MBGP-108-D	36.93	13.67	30.43	12.98	395	1500	30 / 25

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TW400MBGP-108-D	37.08	13.77	30.58	13.08	400	1500	30 / 25
TW405MBGP-108-D	37.23	13.87	30.73	13.18	405	1500	30 / 25
TW410MBGP-108-D	37.38	13.92	30.88	13.28	410	1500	30 / 25
TW415MBGP-108-D	37.53	13.95	31.03	13.38	415	1500	30 / 25
TWMND-78HD580	54.00	13.86	44.78	12.95	580	1500	30 / 25
TWMND-78HD585	54.20	13.90	44.98	13.01	585	1500	30 / 25
TWMND-78HD590	54.40	13.94	45.18	13.06	590	1500	30 / 25
TWMND-78HD595	54.60	13.98	45.38	13.11	595	1500	30 / 25
TWMND-78HD600	54.80	14.02	45.58	13.16	600	1500	30 / 25
TWMND-78HD605	55.00	14.06	45.78	13.22	605	1500	30 / 25
TWMND-78HD610	55.20	14.10	45.98	13.27	610	1500	30 / 25
TWMND-78HD615	55.40	14.14	46.18	13.32	615	1500	30 / 25
TW580MBGT-156-D	54.00	13.86	44.78	12.95	580	1500	30 / 25
TW585MBGT-156-D	54.20	13.90	44.98	13.01	585	1500	30 / 25
TW590MBGT-156-D	54.40	13.94	45.18	13.06	590	1500	30 / 25
TW595MBGT-156-D	54.60	13.98	45.38	13.11	595	1500	30 / 25
TW600MBGT-156-D	54.80	14.02	45.58	13.16	600	1500	30 / 25

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TW605MBGT-156-D	55.00	14.06	45.78	13.22	605	1500	30 / 25
TW610MBGT-156-D	55.20	14.10	45.98	13.27	610	1500	30 / 25
TW615MBGT-156-D	55.40	14.14	46.18	13.32	615	1500	30 / 25
TWMND-72HD535	49.84	13.93	41.48	12.91	535	1500	30 / 25
TWMND-72HD540	50.04	13.97	41.68	12.96	540	1500	30 / 25
TWMND-72HD545	50.24	14.01	41.88	13.02	545	1500	30 / 25
TWMND-72HD550	50.44	14.05	42.08	13.07	550	1500	30 / 25
TWMND-72HD555	50.64	14.09	42.28	13.13	555	1500	30 / 25
TWMND-72HD560	50.84	14.13	42.48	13.18	560	1500	30 / 25
TWMND-72HD565	51.04	14.17	42.68	13.24	565	1500	30 / 25
TW535MBGT-144-D	49.84	13.93	41.48	12.91	535	1500	30 / 25
TW540MBGT-144-D	50.04	13.97	41.68	12.96	540	1500	30 / 25
TW545MBGT-144-D	50.24	14.01	41.88	13.02	545	1500	30 / 25
TW550MBGT-144-D	50.44	14.05	42.08	13.07	550	1500	30 / 25
TW555MBGT-144-D	50.64	14.09	42.28	13.13	555	1500	30 / 25
TW560MBGT-144-D	50.84	14.13	42.48	13.18	560	1500	30 / 25
TW565MBGT-144-D	51.04	14.17	42.68	13.24	565	1500	30 / 25

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TWMND-66HD490	45.65	13.96	38.00	12.91	490	1500	30 / 25
TWMND-66HD495	45.85	14.00	38.20	12.97	495	1500	30 / 25
TWMND-66HD500	46.05	14.04	38.40	13.03	500	1500	30 / 25
TWMND-66HD505	46.25	14.08	38.60	13.09	505	1500	30 / 25
TWMND-66HD510	46.45	14.12	38.80	13.15	510	1500	30 / 25
TWMND-66HD515	46.65	14.16	39.00	13.21	515	1500	30 / 25
TWMND-66HD520	46.85	14.20	39.20	13.27	520	1500	30 / 25
TW490MBGT-132-D	45.65	13.96	38.00	12.91	490	1500	30 / 25
TW495MBGT-132-D	45.85	14.00	38.20	12.97	495	1500	30 / 25
TW500MBGT-132-D	46.05	14.04	38.40	13.03	500	1500	30 / 25
TW505MBGT-132-D	46.25	14.08	38.60	13.09	505	1500	30 / 25
TW510MBGT-132-D	45.85	14.12	38.80	13.15	510	1500	30 / 25
TW515MBGT-132-D	46.05	14.16	39.00	13.21	515	1500	30 / 25
TW520MBGT-132-D	46.25	14.20	39.20	13.27	520	1500	30 / 25
TWMND-60HD-445	41.51	13.95	34.56	12.88	445	1500	30 / 25
TWMND-60HD-450	41.69	13.99	34.74	12.96	450	1500	30 / 25
TWMND-60HD-455	41.87	14.03	34.92	13.03	455	1500	30 / 25

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TWMND-60HD-460	42.05	14.07	35.10	13.11	460	1500	30 / 25
TWMND-60HD-465	42.23	14.11	35.28	13.18	465	1500	30 / 25
TWMND-60HD-470	42.41	14.15	35.46	13.26	470	1500	30 / 25
TW445MBGT-120-D	41.51	13.95	34.56	12.88	445	1500	30 / 25
TW450MBGT-120-D	41.69	13.99	34.74	12.96	450	1500	30 / 25
TW455MBGT-120-D	41.87	14.03	34.92	13.03	455	1500	30 / 25
TW460MBGT-120-D	42.05	14.07	35.10	13.11	460	1500	30 / 25
TW465MBGT-120-D	42.23	14.11	35.28	13.18	465	1500	30 / 25
TW470MBGT-120-D	42.41	14.15	35.46	13.26	470	1500	30 / 25
TWMND-54HD-400	37.41	13.96	31.11	12.88	400	1500	30 / 25
TWMND-54HD-405	37.58	13.99	31.28	12.96	405	1500	30 / 25
TWMND-54HD-410	37.75	14.02	31.45	13.04	410	1500	30 / 25
TWMND-54HD-415	37.92	14.05	31.62	13.12	415	1500	30 / 25
TWMND-54HD-420	38.09	14.08	31.80	13.21	420	1500	30 / 25
TWMND-54HD-425	38.26	14.11	31.98	13.29	425	1500	30 / 25
TW400MBGT-108-D	37.41	13.96	31.11	12.88	400	1500	30 / 25
TW405MBGT-108-D	37.58	13.99	31.28	12.96	405	1500	30 / 25

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TW410MBGT-108-D	37.75	14.02	31.45	13.04	410	1500	30 / 25
TW415MBGT-108-D	37.92	14.05	31.62	13.12	415	1500	30 / 25
TW420MBGT-108-D	38.09	14.08	31.80	13.21	420	1500	30 / 25
TW425MBGT-108-D	38.26	14.11	31.98	13.29	425	1500	30 / 25
TWMPF-66HD635	44.80	18.07	37.00	17.16	635	1500	35 / 30
TWMPF-66HD640	45.00	18.12	37.20	17.20	640	1500	35 / 30
TWMPF-66HD645	45.20	18.17	37.40	17.25	645	1500	35 / 30
TWMPF-66HD650	45.40	18.21	37.60	17.29	650	1500	35 / 30
TWMPF-66HD655	45.60	18.26	37.80	17.33	655	1500	35 / 30
TWMPF-66HD660	45.80	18.31	38.00	17.37	660	1500	35 / 30
TWMPF-66HD665	46.00	18.36	38.20	17.41	665	1500	35 / 30
TWMPF-66HD670	46.20	18.41	38.40	17.45	670	1500	35 / 30
TWMPF-66HD675	46.40	18.46	38.60	17.49	675	1500	35 / 30
TW635MBCP-132-D	44.80	18.07	37.00	17.16	635	1500	35 / 30
TW640MBCP-132-D	45.00	18.12	37.20	17.20	640	1500	35 / 30
TW645MBCP-132-D	45.20	18.17	37.40	17.25	645	1500	35 / 30
TW650MBCP-132-D	45.40	18.21	37.60	17.29	650	1500	35 / 30

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TW655MBCP-132-D	45.60	18.26	37.80	17.33	655	1500	35 / 30
TW660MBCP-132-D	45.80	18.31	38.00	17.37	660	1500	35 / 30
TW665MBCP-132-D	46.00	18.36	38.20	17.41	665	1500	35 / 30
TW670MBCP-132-D	46.20	18.41	38.40	17.45	670	1500	35 / 30
TW675MBCP-132-D	46.40	18.46	38.60	17.49	675	1500	35 / 30
TW635MBIP-132-D	44.80	18.07	37.00	17.16	635	1500	35 / 30
TW640MBIP-132-D	45.00	18.12	37.20	17.20	640	1500	35 / 30
TW645MBIP-132-D	45.20	18.17	37.40	17.25	645	1500	35 / 30
TW650MBIP-132-D	45.40	18.21	37.60	17.29	650	1500	35 / 30
TW655MBIP-132-D	45.60	18.26	37.80	17.33	655	1500	35 / 30
TW660MBIP-132-D	45.80	18.31	38.00	17.37	660	1500	35 / 30
TW665MBIP-132-D	46.00	18.36	38.20	17.41	665	1500	35 / 30
TW670MBIP-132-D	46.20	18.41	38.40	17.45	670	1500	35 / 30
TW675MBIP-132-D	46.40	18.46	38.60	17.49	675	1500	35 / 30
TWMPF-60HD580	40.84	18.25	33.75	17.19	580	1500	35 / 30
TWMPF-60HD585	41.04	18.30	33.95	17.23	585	1500	35 / 30
TWMPF-60HD590	41.24	18.36	34.15	17.28	590	1500	35 / 30

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TWMPF-60HD595	41.44	18.41	34.35	17.32	595	1500	35 / 30
TWMPF-60HD600	41.64	18.46	34.55	17.37	600	1500	35 / 30
TWMPF-60HD605	41.84	18.52	34.75	17.41	605	1500	35 / 30
TWMPF-60HD610	42.04	18.57	34.95	17.46	610	1500	35 / 30
TW580MBCP-120-D	40.84	18.25	33.75	17.19	580	1500	35 / 30
TW585MBCP-120-D	41.04	18.30	33.95	17.23	585	1500	35 / 30
TW590MBCP-120-D	41.24	18.36	34.15	17.28	590	1500	35 / 30
TW595MBCP-120-D	41.44	18.41	34.35	17.32	595	1500	35 / 30
TW600MBCP-120-D	41.64	18.46	34.55	17.37	600	1500	35 / 30
TW605MBCP-120-D	41.84	18.52	34.75	17.41	605	1500	35 / 30
TW610MBCP-120-D	42.04	18.57	34.95	17.46	610	1500	35 / 30
TW580MBIP-120-D	40.84	18.25	33.75	17.19	580	1500	35 / 30
TW585MBIP-120-D	41.04	18.30	33.95	17.23	585	1500	35 / 30
TW590MBIP-120-D	41.24	18.36	34.15	17.28	590	1500	35 / 30
TW595MBIP-120-D	41.44	18.41	34.35	17.32	595	1500	35 / 30
TW600MBIP-120-D	41.64	18.46	34.55	17.37	600	1500	35 / 30
TW605MBIP-120-D	41.84	18.52	34.75	17.41	605	1500	35 / 30

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



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TW610MBIP-120-D	42.04	18.57	34.95	17.46	610	1500	35 / 30
TWMPF-54HD520	36.57	18.23	30.32	17.15	520	1500	35 / 30
TWMPF-54HD525	36.73	18.29	30.49	17.22	525	1500	35 / 30
TWMPF-54HD530	36.89	18.33	30.66	17.29	530	1500	35 / 30
TWMPF-54HD535	37.05	18.37	30.83	17.36	535	1500	35 / 30
TWMPF-54HD540	37.21	18.41	31.00	17.42	540	1500	35 / 30
TWMPF-54HD545	37.37	18.45	31.17	17.49	545	1500	35 / 30
TWMPF-54HD550	37.53	18.49	31.34	17.55	550	1500	35 / 30
TW520MBCP-108-D	36.57	18.23	30.32	17.15	520	1500	35 / 30
TW525MBCP-108-D	36.73	18.29	30.49	17.22	525	1500	35 / 30
TW530MBCP-108-D	36.89	18.33	30.66	17.29	530	1500	35 / 30
TW535MBCP-108-D	37.05	18.37	30.83	17.36	535	1500	35 / 30
TW540MBCP-108-D	37.21	18.41	31.00	17.42	540	1500	35 / 30
TW545MBCP-108-D	37.37	18.45	31.17	17.49	545	1500	35 / 30
TW550MBCP-108-D	37.53	18.49	31.34	17.55	550	1500	35 / 30
TW520MBIP-108-D	36.57	18.23	30.32	17.15	520	1500	35 / 30
TW525MBIP-108-D	36.73	18.29	30.49	17.22	525	1500	35 / 30

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TW530MBIP-108-D	36.89	18.33	30.66	17.29	530	1500	35 / 30
TW535MBIP-108-D	37.05	18.37	30.83	17.36	535	1500	35 / 30
TW540MBIP-108-D	37.21	18.41	31.00	17.42	540	1500	35 / 30
TW545MBIP-108-D	37.37	18.45	31.17	17.49	545	1500	35 / 30
TW550MBIP-108-D	37.53	18.49	31.34	17.55	550	1500	35 / 30
TWMPF-55HD530	37.30	18.19	31.00	17.11	530	1500	35 / 30
TWMPF-55HD535	37.50	18.24	31.20	17.16	535	1500	35 / 30
TWMPF-55HD540	37.70	18.30	31.40	17.21	540	1500	35 / 30
TWMPF-55HD545	37.90	18.35	31.60	17.24	545	1500	35 / 30
TWMPF-55HD550	38.10	18.39	31.80	17.29	550	1500	35 / 30
TWMPF-55HD555	38.30	18.43	32.00	17.34	555	1500	35 / 30
TWMPF-55HD560	38.50	18.47	32.20	17.39	560	1500	35 / 30
TW530MBCP-110-D	37.30	18.19	31.00	17.11	530	1500	35 / 30
TW535MBCP-110-D	37.50	18.24	31.20	17.16	535	1500	35 / 30
TW540MBCP-110-D	37.70	18.30	31.40	17.21	540	1500	35 / 30
TW545MBCP-110-D	37.90	18.35	31.60	17.24	545	1500	35 / 30
TW550MBCP-110-D	38.10	18.39	31.80	17.29	550	1500	35 / 30

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TW555MBCP-110-D	38.30	18.43	32.00	17.34	555	1500	35 / 30
TW560MBCP-110-D	38.50	18.47	32.20	17.39	560	1500	35 / 30
TW530MBIP-110-D	37.30	18.19	31.00	17.11	530	1500	35 / 30
TW535MBIP-110-D	37.50	18.24	31.20	17.16	535	1500	35 / 30
TW540MBIP-110-D	37.70	18.30	31.40	17.21	540	1500	35 / 30
TW545MBIP-110-D	37.90	18.35	31.60	17.24	545	1500	35 / 30
TW550MBIP-110-D	38.10	18.39	31.80	17.29	550	1500	35 / 30
TW555MBIP-110-D	38.30	18.43	32.00	17.34	555	1500	35 / 30
TW560MBIP-110-D	38.50	18.47	32.20	17.39	560	1500	35 / 30
TWMPF-50HD480	33.85	18.15	28.25	16.99	480	1500	35 / 30
TWMPF-50HD485	34.00	18.20	28.40	17.08	485	1500	35 / 30
TWMPF-50HD490	34.15	18.25	28.55	17.17	490	1500	35 / 30
TWMPF-50HD495	34.30	18.30	28.70	17.25	495	1500	35 / 30
TWMPF-50HD500	34.45	18.35	28.85	17.33	500	1500	35 / 30
TWMPF-50HD505	34.60	18.40	29.00	17.42	505	1500	35 / 30
TWMPF-50HD510	34.75	18.45	29.15	17.50	510	1500	35 / 30
TW480MBCP-100-D	33.85	18.15	28.25	16.99	480	1500	35 / 30

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TW485MBCP-100-D	34.00	18.20	28.40	17.08	485	1500	35 / 30
TW490MBCP-100-D	34.15	18.25	28.55	17.17	490	1500	35 / 30
TW495MBCP-100-D	34.30	18.30	28.70	17.25	495	1500	35 / 30
TW500MBCP-100-D	34.45	18.35	28.85	17.33	500	1500	35 / 30
TW505MBCP-100-D	34.60	18.40	29.00	17.42	505	1500	35 / 30
TW510MBCP-100-D	34.75	18.45	29.15	17.50	510	1500	35 / 30
TW480MBIP-100-D	33.85	18.15	28.25	16.99	480	1500	35 / 30
TW485MBIP-100-D	34.00	18.20	28.40	17.08	485	1500	35 / 30
TW490MBIP-100-D	34.15	18.25	28.55	17.17	490	1500	35 / 30
TW495MBIP-100-D	34.30	18.30	28.70	17.25	495	1500	35 / 30
TW500MBIP-100-D	34.45	18.35	28.85	17.33	500	1500	35 / 30
TW505MBIP-100-D	34.60	18.40	29.00	17.42	505	1500	35 / 30
TW510MBIP-100-D	34.75	18.45	29.15	17.50	510	1500	35 / 30
TWMNF-66HD665	46.90	18.06	39.10	17.01	665	1500	35 / 30
TWMNF-66HD670	47.10	18.10	39.30	17.05	670	1500	35 / 30
TWMNF-66HD675	47.30	18.14	39.50	17.09	675	1500	35 / 30
TWMNF-66HD680	47.50	18.18	39.70	17.12	680	1500	35 / 30

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



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TWMNF-66HD685	47.70	18.22	39.90	17.17	685	1500	35 / 30
TWMNF-66HD690	47.85	18.26	40.10	17.21	690	1500	35 / 30
TW665MBIT-132-D	46.90	18.06	39.10	17.01	665	1500	35 / 30
TW670MBIT-132-D	47.10	18.10	39.30	17.05	670	1500	35 / 30
TW675MBIT-132-D	47.30	18.14	39.50	17.09	675	1500	35 / 30
TW680MBIT-132-D	47.50	18.18	39.70	17.12	680	1500	35 / 30
TW685MBIT-132-D	47.70	18.22	39.90	17.17	685	1500	35 / 30
TW690MBIT-132-D	47.85	18.26	40.10	17.21	690	1500	35 / 30
TWMNF-60HD605	42.70	18.05	35.40	17.09	605	1500	35 / 30
TWMNF-60HD610	42.90	18.10	35.58	17.15	610	1500	35 / 30
TWMNF-60HD615	43.10	18.15	35.76	17.20	615	1500	35 / 30
TWMNF-60HD620	43.30	18.21	35.94	17.25	620	1500	35 / 30
TWMNF-60HD625	43.45	18.26	36.12	17.31	625	1500	35 / 30
TW605MBIT-120-D	42.70	18.05	35.40	17.09	605	1500	35 / 30
TW610MBIT-120-D	42.90	18.10	35.58	17.15	610	1500	35 / 30
TW615MBIT-120-D	43.10	18.15	35.76	17.20	615	1500	35 / 30
TW620MBIT-120-D	43.30	18.21	35.94	17.25	620	1500	35 / 30

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TW625MBIT-120-D	43.45	18.26	36.12	17.31	625	1500	35 / 30
TWMNF-54HD545	38.57	18.13	31.72	17.18	545	1500	35 / 30
TWMNF-54HD550	38.74	18.18	31.90	17.24	550	1500	35 / 30
TWMNF-54HD555	38.91	18.23	32.08	17.30	555	1500	35 / 30
TWMNF-54HD560	39.08	18.28	32.26	17.36	560	1500	35 / 30
TWMNF-54HD565	39.25	18.33	32.44	17.42	565	1500	35 / 30
TW545MBIT-108-D	38.57	18.13	31.72	17.18	545	1500	35 / 30
TW550MBIT-108-D	38.74	18.18	31.90	17.24	550	1500	35 / 30
TW555MBIT-108-D	38.91	18.23	32.08	17.30	555	1500	35 / 30
TW560MBIT-108-D	39.08	18.28	32.26	17.36	560	1500	35 / 30
TW565MBIT-108-D	39.25	18.33	32.44	17.42	565	1500	35 / 30
TWMNF-55HD530	38.05	17.96	31.07	17.06	530	1500	35 / 30
TWMNF-55HD535	38.25	18.00	31.27	17.11	535	1500	35 / 30
TWMNF-55HD540	38.45	18.04	31.47	17.16	540	1500	35 / 30
TWMNF-55HD545	38.65	18.08	31.67	17.21	545	1500	35 / 30
TWMNF-55HD550	38.85	18.12	31.87	17.26	550	1500	35 / 30
TWMNF-55HD555	39.05	18.16	32.05	17.32	555	1500	35 / 30

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TWMNF-55HD560	39.25	18.20	32.23	17.38	560	1500	35 / 30
TWMNF-55HD565	39.45	18.24	32.40	17.44	565	1500	35 / 30
TW530MBIT-110-D	38.05	17.96	31.07	17.06	530	1500	35 / 30
TW535MBIT-110-D	38.25	18.00	31.27	17.11	535	1500	35 / 30
TW540MBIT-110-D	38.45	18.04	31.47	17.16	540	1500	35 / 30
TW545MBIT-110-D	38.65	18.08	31.67	17.21	545	1500	35 / 30
TW550MBIT-110-D	38.85	18.12	31.87	17.26	550	1500	35 / 30
TW555MBIT-110-D	39.05	18.16	32.05	17.32	555	1500	35 / 30
TW560MBIT-110-D	39.25	18.20	32.23	17.38	560	1500	35 / 30
TW565MBIT-110-D	39.45	18.24	32.40	17.44	565	1500	35 / 30
TWMNF-50HD480	34.68	17.89	28.60	16.70	480	1500	35 / 30
TWMNF-50HD485	34.85	17.94	28.79	16.79	485	1500	35 / 30
TWMNF-50HD490	35.02	17.99	28.98	16.88	490	1500	35 / 30
TWMNF-50HD495	35.19	18.04	29.17	16.97	495	1500	35 / 30
TWMNF-50HD500	35.36	18.09	29.36	17.06	500	1500	35 / 30
TWMNF-50HD505	35.53	18.14	29.54	17.10	505	1500	35 / 30
TWMNF-50HD510	35.70	18.19	29.72	17.16	510	1500	35 / 30

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TW480MBIT-100-D	34.68	17.89	28.60	16.70	480	1500	35 / 30
TW485MBIT-100-D	34.85	17.94	28.79	16.79	485	1500	35 / 30
TW490MBIT-100-D	35.02	17.99	28.98	16.88	490	1500	35 / 30
TW495MBIT-100-D	35.19	18.04	29.17	16.97	495	1500	35 / 30
TW500MBIT-100-D	35.36	18.09	29.36	17.06	500	1500	35 / 30
TW505MBIT-100-D	35.53	18.14	29.54	17.10	505	1500	35 / 30
TW510MBIT-100-D	35.70	18.19	29.72	17.16	510	1500	35 / 30

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