

## APPENDIX 1: CONNECTORS

Modules equipped with PV wiring connectors that comply with the Standard for Connectors for Use in Photovoltaic Systems, UL 61730, shall have the specific allowable mating connector manufacturer(s) and model number(s) listed as below:

The type of Connector	Connector manufacturer	Trade mark identification	Rated Voltage	Rated Current(A)	Temperature Range
TS4	Trina Solar Co., Ltd.	Trina Solar	1500V	41A/46A	-40°C-85°C
TS4-36	Trina Solar Co., Ltd.	Trina Solar	1500V	41A/46A	-40°C-85°C
TS4-xz (x=1; z=1 or 2);	Trina Solar Co., Ltd.	Trina Solar	1500V	41A/46A	-40°C-85°C
TS4-cd (c=1; d=1 or 2)	Trina Solar Co., Ltd.	Trina Solar	1500V	41A/46A	-40°C-85°C
QC4.10-cds(c=3 or 4; d=5 or 6; s=blank or 1)	QC Solar (Suzhou) Corporation	QC Solar (Suzhou) Corporation	1500V	41A/46A	-40°C-85°C
PV-KST4-EVO 2/xy_UR; PV-KBT4-EVO 2/xy_UR; PV-KST4-EVO2A/xy; PV-KBT4-EVO2A/xy	Stäubli Electrical Connectors AG	Stäubli Electrical Connectors AG	1500V	46A/53A	-40°C-85°C

## APPENDIX 2: Wiring cable

Modules equipped with PV wiring Cable that comply with the Standard for cable for Use in Photovoltaic Systems, shall have the specific allowable mating cable manufacturer(s) and model number(s) listed as below:

The type of Cable	The Cable manufacturer	Rated Voltage	Cable diameters	Temperature Range
62930 IEC 131 1X1,5...35mm <sup>2</sup> HALOGEN FREE LOW SMOKE	Wuxi Xinhongye Wire & Cable Co., Ltd.	1500V	1x4,0mm <sup>2</sup>	-40°C-85°C
62930 IEC 131 1X1,5...35mm <sup>2</sup> HALOGEN FREE LOW SMOKE	Trina Solar Co., Ltd.	1500V	1x4,0mm <sup>2</sup>	-40°C-85°C
62930 IEC 131 1X1,5...35mm <sup>2</sup> HALOGEN FREE LOW SMOKE	Changshu JHOSIN Communication Technology Co., Ltd.	1500V	1x4,0mm <sup>2</sup> or 1x6,0mm <sup>2</sup>	-40°C-85°C
62930 IEC 131 1X1,5...35mm <sup>2</sup> HALOGEN FREE LOW SMOKE	SUZHOU YONGHAO CABLE CO LTD	1500V	1x4,0mm <sup>2</sup> or 1x6,0mm <sup>2</sup>	-40°C-85°C
62930 IEC 131 1X1,5...35mm <sup>2</sup> HALOGEN FREE LOW SMOKE	Changzhou Greateen New Energy Technology Co., Ltd.	1500V	1x4,0mm <sup>2</sup>	-40°C-85°C

## APPENDIX 3: Bypass diode

Modules equipped with PV Bypass diode that comply with the Standard for Bypass diode for Use in Photovoltaic Systems, shall have the specific allowable mating bypass diode manufacturer(s) and model number(s) listed as below:

The type of Bypass Diode	The Bypass Diode manufacturer	Technical data / ratings
TM3045-18	Brand of diode Trina Solar Co., Ltd.; Manufacturer : SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD Panjit Electronics (Wuxi) CO., LTD. Yangzhou Yangjie Electronic Technology Co., Ltd. Anhui Juxin Semiconductor Technology Co., Ltd. Suzhou Xtong Photovoltaic Technologies Co., Ltd. Sichuan S-Chip Microelectronics., Ltd. Changzhou Greateen New Energy Technology Co., Ltd.	Tj max=200°C
TM3045-20	Brand of diode Trina Solar Co., Ltd.; Manufacturer : SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD	Tj max=200°C

	<p>Panjit Electronics (Wuxi) CO., LTD.  Yangzhou Yangjie Electronic Technology Co., Ltd.  Anhui Juxin Semiconductor Technology Co., Ltd.  Suzhou Xtong Photovoltaic Technologies Co., Ltd.  Sichuan S-Chip Microelectronics., Ltd.  Changzhou Greateen New Energy Technology Co., Ltd.</p>	
TM3045-25	<p>Brand of diode Trina Solar Co., Ltd.; Manufacturer :  SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD  Panjit Electronics (Wuxi) CO., LTD.  Yangzhou Yangjie Electronic Technology Co., Ltd.  Anhui Juxin Semiconductor Technology Co., Ltd.  Suzhou Xtong Photovoltaic Technologies Co., Ltd.  Sichuan S-Chip Microelectronics., Ltd.  Changzhou Greateen New Energy Technology Co., Ltd.  China Resources Semiconductor (Chongqing) Co., Ltd.</p>	Tj max=200°C
TM3045-28	<p>Brand of diode Trina Solar Co., Ltd.; Manufacturer :  SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD  Panjit Electronics (Wuxi) CO., LTD.  Yangzhou Yangjie Electronic Technology Co., Ltd.  Anhui Juxin Semiconductor Technology Co., Ltd.  Suzhou Xtong Photovoltaic Technologies Co., Ltd.  Sichuan S-Chip Microelectronics., Ltd.  Changzhou Greateen New Energy Technology Co., Ltd.  China Resources Semiconductor (Chongqing) Co., Ltd.</p>	Tj max=200°C
TM3045-30	<p>Brand of diode Trina Solar Co., Ltd.; Manufacturer :  SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD  Panjit Electronics (Wuxi) CO., LTD.  Yangzhou Yangjie Electronic Technology Co., Ltd.  Anhui Juxin Semiconductor Technology Co., Ltd.  Suzhou Xtong Photovoltaic Technologies Co., Ltd.  Sichuan S-Chip Microelectronics., Ltd.  Changzhou Greateen New Energy Technology Co., Ltd.</p>	Tj max=200°C
TM3045-18T/ TM3045-20T/ TM3045-25T	<p>Jiangsu Tonglin Electric Co., Ltd.</p>	Tj max=200°C
TM3045-20Q/ TM3045-25Q/ TM3045-30Q	<p>QC Solar (Suzhou) Corporation</p>	Tj max=200°C
TM3045-20U/ TM3045-25U	<p>SUZHOU UKT NEW ENERGY TECHNOLOGY CO.,LTD</p>	Tj max=200°C
TM3045-20X/ TM3045-25X	<p>Suzhou Xtong Photovoltaic Technologies Co., Ltd.</p>	Tj max=200°C

## APPENDIX 4: Electrical and mechanical properties

Product Series	Pmax	Vmpp (V)	Imp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
DE21 Series	635	36.8	17.26	44.7	18.30	30	(-0.34)	(-0.25)	0.04	1500V	Protection Class I
	640	37.0	17.30	44.9	18.34		(-0.34)	(-0.25)	0.04		
	645	37.2	17.35	45.1	18.39		(-0.34)	(-0.25)	0.04		
	650	37.4	17.39	45.3	18.44		(-0.34)	(-0.25)	0.04		
	655	37.6	17.43	45.5	18.48		(-0.34)	(-0.25)	0.04		
	660	37.8	17.47	45.7	18.53		(-0.34)	(-0.25)	0.04		
	665	38.0	17.51	45.9	18.57		(-0.34)	(-0.25)	0.04		
	670	38.2	17.55	46.1	18.62		(-0.34)	(-0.25)	0.04		
	675	38.4	17.55	46.3	18.66		(-0.34)	(-0.25)	0.04		

Product Series	Pmax	Vmpp (V)	Imp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
DE20 Series	575	33.4	17.22	40.5	18.27	30	(-0.34)	(-0.25)	0.04	1500V	Protection Class II
	580	33.6	17.26	40.7	18.32		(-0.34)	(-0.25)	0.04		
	585	33.8	17.31	40.9	18.37		(-0.34)	(-0.25)	0.04		
	590	34.0	17.35	41.1	18.42		(-0.34)	(-0.25)	0.04		
	595	34.2	17.40	41.3	18.47		(-0.34)	(-0.25)	0.04		
	600	34.4	17.44	41.5	18.52		(-0.34)	(-0.25)	0.04		
	605	34.6	17.49	41.7	18.57		(-0.34)	(-0.25)	0.04		
	610	34.8	17.53	41.9	18.62		(-0.34)	(-0.25)	0.04		

Product Series	Pmax	Vmpp (V)	Imp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
DE19R series	550	37.5	14.65	44.8	15.67	30	(-0.34)	(-0.25)	0.04	1500V	Protection Class II
	555	37.8	14.69	45	15.72	30	(-0.34)	(-0.25)	0.04		
	560	38.0	14.72	45.3	15.76	30	(-0.34)	(-0.25)	0.04		
	565	38.3	14.76	45.6	15.81	30	(-0.34)	(-0.25)	0.04		
	570	38.5	14.79	45.8	15.85	30	(-0.34)	(-0.25)	0.04		
	575	38.8	14.83	46.1	15.90	30	(-0.34)	(-0.25)	0.04		
	580	39.0	14.86	46.3	15.94	30	(-0.34)	(-0.25)	0.04		
	585	39.3	14.90	46.6	15.99	30	(-0.34)	(-0.25)	0.04		
	590	39.5	14.93	46.8	16.03	30	(-0.34)	(-0.25)	0.04		
	595	39.8	14.97	47.1	16.08	30	(-0.34)	(-0.25)	0.04		
	600	40.0	15.00	47.3	16.12	30	(-0.34)	(-0.25)	0.04		
605	40.2	15.04	47.6	16.17	30	(-0.34)	(-0.25)	0.04			

Product Series	Pmax	Vmpp (V)	Impp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
DE18M(II) series	470	41.6	11.30	50.4	11.83	25	(-0.34)	(-0.25)	0.04	1500V	Protection Class II
	475	41.8	11.37	50.6	11.91		(-0.34)	(-0.25)	0.04		
	480	42.0	11.42	50.8	11.99		(-0.34)	(-0.25)	0.04		
	485	42.2	11.49	51.1	12.07		(-0.34)	(-0.25)	0.04		
	490	42.4	11.56	51.3	12.14		(-0.34)	(-0.25)	0.04		
	495	42.6	11.63	51.5	12.21		(-0.34)	(-0.25)	0.04		
	500	42.8	11.69	51.7	12.28		(-0.34)	(-0.25)	0.04		
	505	43.0	11.75	51.9	12.35		(-0.34)	(-0.25)	0.04		
	510	43.2	11.81	52.1	12.42		(-0.34)	(-0.25)	0.04		
	515	43.4	11.87	52.3	12.49		(-0.34)	(-0.25)	0.04		
520	43.6	11.93	52.5	12.55	(-0.34)	(-0.25)	0.04				

Product Series	Pmax	Vmpp (V)	Impp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
DE09R.series	395	40.8	9.67	49.4	10.44	20	(-0.34)	(-0.25)	0.04	1500V	Protection Class II
	400	41	9.75	49.6	10.47		(-0.34)	(-0.25)	0.04		
	405	41.3	9.82	49.7	10.5		(-0.34)	(-0.25)	0.04		
	410	41.5	9.87	49.8	10.53		(-0.34)	(-0.25)	0.04		
	415	41.7	9.94	50	10.55		(-0.34)	(-0.25)	0.04		
	420	42	10.01	50.1	10.58		(-0.34)	(-0.25)	0.04		
	425	42.2	10.08	50.2	10.61		(-0.34)	(-0.25)	0.04		
	430	42.3	10.17	50.3	10.64		(-0.34)	(-0.25)	0.04		
	435	42.5	10.24	50.4	10.67		(-0.34)	(-0.25)	0.04		
	440	42.7	10.3	50.5	10.69		(-0.34)	(-0.25)	0.04		

Product Series	Pmax	Vmpp (V)	Impp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
DEG21C.series	640	37.3	17.19	45.1	18.26	35	(-0.34)	(-0.25)	0.04	1500V	Protection Class II
	645	37.5	17.23	45.3	18.31		(-0.34)	(-0.25)	0.04		
	650	37.7	17.27	45.5	18.35		(-0.34)	(-0.25)	0.04		
	655	37.9	17.31	45.7	18.4		(-0.34)	(-0.25)	0.04		
	660	38.1	17.35	45.9	18.45		(-0.34)	(-0.25)	0.04		
	665	38.3	17.39	46.1	18.5		(-0.34)	(-0.25)	0.04		
	670	38.5	17.43	46.3	18.55		(-0.34)	(-0.25)	0.04		

Product Series	Pmax	Vmpp (V)	Imp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
DEG20C.series	580	33.8	17.16	40.9	18.21	35	(-0.34)	(-0.25)	0.04	1500V	Protection Class II
	585	34.0	17.21	41.1	18.26		(-0.34)	(-0.25)	0.04		
	590	34.2	17.25	41.3	18.31		(-0.34)	(-0.25)	0.04		
	595	34.4	17.30	41.5	18.36		(-0.34)	(-0.25)	0.04		
	600	34.6	17.34	41.7	18.42		(-0.34)	(-0.25)	0.04		
	605	34.8	17.39	41.9	18.48		(-0.34)	(-0.25)	0.04		
	610	35.0	17.44	42.1	18.53		(-0.34)	(-0.25)	0.04		

Product Series	Pmax	Vmpp (V)	Imp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
NEG21C.series	645	38.1	16.92	46.0	17.92	35	-0.29	-0.24	0.04	1500V	Protection Class II
	650	38.3	16.96	46.2	17.96		-0.29	-0.24	0.04		
	655	38.6	16.99	46.4	18.00		-0.29	-0.24	0.04		
	660	38.8	17.02	46.6	18.03		-0.29	-0.24	0.04		
	665	39.0	17.06	46.8	18.07		-0.29	-0.24	0.04		
	670	39.2	17.09	47.0	18.10		-0.29	-0.24	0.04		
	675	39.4	17.12	47.2	18.14		-0.29	-0.24	0.04		
	680	39.6	17.16	47.4	18.18		-0.29	-0.24	0.04		
	685	39.8	17.19	47.7	18.21		-0.29	-0.24	0.04		
	690	40.1	17.23	47.9	18.25		-0.29	-0.24	0.04		
	695	40.3	17.25	48.3	18.28		-0.29	-0.24	0.04		
	700	40.5	17.29	48.6	18.32		-0.29	-0.24	0.04		
	705	40.7	17.33	48.8	18.36		-0.29	-0.24	0.04		
	710	40.9	17.36	49.0	18.40		-0.29	-0.24	0.04		

Product Series	Pmax	Vmpp (V)	Imp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
NEG20C.series	585	34.6	16.92	41.8	17.93	35	-0.29	-0.24	0.04	1500V	Protection Class II
	590	34.8	16.96	42.0	17.96		-0.29	-0.24	0.04		
	595	35.0	16.99	42.2	18.00		-0.29	-0.24	0.04		
	600	35.3	17.02	42.4	18.03		-0.29	-0.24	0.04		
	605	35.5	17.06	42.6	18.07		-0.29	-0.24	0.04		
	610	35.7	17.09	42.8	18.10		-0.29	-0.24	0.04		
	615	35.9	17.12	43.0	18.14		-0.29	-0.24	0.04		
	620	36.1	17.16	43.2	18.18		-0.29	-0.24	0.04		
	625	36.4	17.19	43.5	18.21		-0.29	-0.24	0.04		
	630	36.6	17.22	43.9	18.24		-0.29	-0.24	0.04		
	635	36.8	17.26	44.2	18.27		-0.29	-0.24	0.04		
	640	37.0	17.30	44.5	18.30		-0.29	-0.24	0.04		
	645	37.2	17.34	44.8	18.33		-0.29	-0.24	0.04		

Product Series	Pmax	Vmpp (V)	Impp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
NEG19RC.series	575	38.9	14.78	46.9	15.63	35	-0.29	-0.24	0.04	1500V	Protection Class II
	580	39.2	14.79	47.2	15.65		-0.29	-0.24	0.04		
	585	39.5	14.82	47.5	15.68		-0.29	-0.24	0.04		
	590	39.7	14.86	47.8	15.72		-0.29	-0.24	0.04		
	595	40.0	14.89	48.1	15.76		-0.29	-0.24	0.04		
	600	40.3	14.91	48.4	15.80		-0.29	-0.24	0.04		
	605	40.5	14.94	48.7	15.83		-0.29	-0.24	0.04		
	610	40.8	14.96	49.0	15.86		-0.29	-0.24	0.04		
	615	41.1	14.98	49.3	15.89		-0.29	-0.24	0.04		
	620	41.4	14.99	49.6	15.91		-0.29	-0.24	0.04		

Product Series	Pmax	Vmpp (V)	Impp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
NEG9RC.series	410	41.8	9.82	49.8	10.47	25	-0.29	-0.24	0.04	1500V	Protection Class II
	415	42.1	9.86	50.1	10.50		-0.29	-0.24	0.04		
	420	42.5	9.89	50.5	10.53		-0.29	-0.24	0.04		
	425	42.9	9.92	50.9	10.56		-0.29	-0.24	0.04		
	430	43.2	9.96	51.4	10.59		-0.29	-0.24	0.04		
	435	43.6	9.99	51.8	10.64		-0.29	-0.24	0.04		
	440	44.0	10.01	52.2	10.67		-0.29	-0.24	0.04		
	445	44.3	10.05	52.6	10.71		-0.29	-0.24	0.04		
	450	44.6	10.09	52.9	10.74		-0.29	-0.24	0.04		

Product Series	Pmax	Vmpp (V)	Impp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
NEG18R.series	470	32.1	14.67	38.8	15.62	30	-0.29	-0.24	0.04	1500V	Protection Class II
	475	32.3	14.72	39.0	15.68		-0.29	-0.24	0.04		
	480	32.5	14.77	39.2	15.72		-0.29	-0.24	0.04		
	485	32.7	14.84	39.4	15.76		-0.29	-0.24	0.04		
	490	32.9	14.91	39.6	15.80		-0.29	-0.24	0.04		
	495	33.1	14.97	39.8	15.83		-0.29	-0.24	0.04		
	500	33.3	15.03	40.1	15.86		-0.29	-0.24	0.04		
	505	33.5	15.09	40.3	15.89		-0.29	-0.24	0.04		

Product Series	Pmax	Vmpp (V)	Impp (A)	Voc (V)	Ish (A)	Maximum over current protection rating(A)	Temperature coefficient for Pmax(%)	Temperature coefficient for Voc(%)	Temperature coefficient for Isc(%)	Maximum System Voltage[V]	Classification
NEG9R.series	410	41.8	9.82	49.8	10.47	25	-0.29	-0.24	0.04	1500V	Protection Class II
	415	42.1	9.86	50.1	10.50		-0.29	-0.24	0.04		
	420	42.5	9.89	50.5	10.53		-0.29	-0.24	0.04		
	425	42.9	9.92	50.9	10.56		-0.29	-0.24	0.04		
	430	43.2	9.96	51.4	10.59		-0.29	-0.24	0.04		
	435	43.6	9.99	51.8	10.64		-0.29	-0.24	0.04		
	440	44.0	10.01	52.2	10.67		-0.29	-0.24	0.04		
	445	44.3	10.05	52.6	10.71		-0.29	-0.24	0.04		
	450	44.6	10.09	52.9	10.74		-0.29	-0.24	0.04		
	455	45.0	10.11	53.4	10.77		-0.29	-0.24	0.04		
	460	45.4	10.14	53.8	10.81		-0.29	-0.24	0.04		

Product Series	BNPI					BSI	
	Pmax (W)	Voc(V)	Isc(A)	Vmpp(V)	Impp(A)	Isc(A)	Impp(A)
TSM-640DEG21C. Series	700	45.1	19.99	37.3	18.78	22.09	20.76
TSM-645DEG21C. Series	706	45.3	20.04	37.5	18.83	22.16	20.81
TSM-650DEG21C. Series	711	45.5	20.08	37.7	18.87	22.20	20.86
TSM-655DEG21C. Series	717	45.7	20.14	37.9	18.92	22.26	20.91
TSM-660DEG21C. Series	722	45.9	20.19	38.1	18.96	22.32	20.96
TSM-665DEG21C. Series	728	46.1	20.25	38.3	19.00	22.39	21.01
TSM-670DEG21C. Series	733	46.3	20.30	38.5	19.05	22.45	21.06

Product Series	BNPI					BSI	
	Pmax (W)	Voc(V)	Isc(A)	Vmpp(V)	Impp(A)	Isc(A)	Impp(A)
TSM-580DEG20C. Series	635	40.9	19.93	33.8	18.67	22.03	20.76
TSM-585DEG20C. Series	640	41.1	19.99	34.0	18.72	22.09	20.82
TSM-590DEG20C. Series	646	41.3	20.04	34.2	18.77	22.16	20.87
TSM-595DEG20C. Series	651	41.5	20.1	34.4	18.82	22.22	20.93
TSM-600DEG20C. Series	657	41.7	20.16	34.6	18.87	22.29	20.98
TSM-605DEG20C. Series	662	41.9	20.23	34.8	19.03	22.36	21.04
TSM-610DEG20C. Series	668	42.1	20.28	35	19.08	22.42	21.09

Product Series	BNPI					BSI	
	Pmax (W)	Voc(V)	Isc(A)	Vmpp(V)	Impp(A)	Isc(A)	Impp(A)
TSM-645NEG21C. Series	715	46.0	19.86	38.1	18.76	22.22	20.99
TSM-650NEG21C. Series	720	46.2	19.90	38.3	18.80	22.27	21.04
TSM-655NEG21C. Series	726	46.4	19.94	38.6	18.81	22.32	21.04
TSM-660NEG21C. Series	731	46.6	19.98	38.8	18.85	22.36	21.09
TSM-665NEG21C. Series	737	46.8	20.02	39.0	18.89	22.41	21.14
TSM-670NEG21C. Series	742	47.0	20.05	39.2	18.94	22.44	21.19
TSM-675NEG21C. Series	748	47.2	20.10	39.4	18.98	22.49	21.24
TSM-680NEG21C. Series	753	47.4	20.14	39.6	19.03	22.54	21.29

TSM-685NEG21C. Series	759	47.7	20.18	39.8	19.07	22.58	21.34
TSM-690NEG21C. Series	765	47.9	20.22	40.1	19.07	22.63	21.34
TSM-695NEG21C. Series	770	48.3	20.25	40.3	19.11	22.67	21.38
TSM-700NEG21C. Series	776	48.6	20.30	40.5	19.15	22.72	21.43
TSM-705NEG21C. Series	781	48.8	20.34	40.7	19.19	22.77	21.48
TSM-710NEG21C. Series	787	49.0	20.39	40.9	19.23	22.82	21.53

Product Series	BNPI					BSI	
	Pmax (W)	Voc(V)	Isc(A)	Vmpp(V)	Impp(A)	Isc(A)	Impp(A)
TSM-585NEG20C. Series	648	41.8	19.87	34.6	18.73	22.23	20.97
TSM-590NEG20C. Series	654	42	19.90	34.8	18.79	22.27	21.02
TSM-595NEG20C. Series	659	42.2	19.94	35.0	18.84	22.32	21.08
TSM-600NEG20C. Series	665	42.4	19.98	35.3	18.83	22.36	21.08
TSM-605NEG20C. Series	670	42.6	20.02	35.5	18.88	22.41	21.13
TSM-610NEG20C. Series	676	42.8	20.05	35.7	18.93	22.44	21.19
TSM-615NEG20C. Series	681	43.0	20.10	35.9	18.98	22.49	21.24
TSM-620NEG20C. Series	687	43.2	20.14	36.1	19.03	22.54	21.30
TSM-625NEG20C. Series	693	43.5	20.18	36.4	19.04	22.58	21.31
TSM-630NEG20C. Series	698	43.9	20.21	36.6	19.07	22.62	21.34
TSM-635NEG20C. Series	704	44.2	20.24	36.8	19.12	22.65	21.40
TSM-640NEG20C. Series	709	44.5	20.28	37.0	19.17	22.69	21.45
TSM-645NEG20C. Series	715	44.8	20.31	37.2	19.22	22.73	21.46

Product Series	BNPI					BSI	
	Pmax (W)	Voc(V)	Isc(A)	Vmpp(V)	Impp(A)	Isc(A)	Impp(A)
TSM-575NEG19RC. Series	637	46.9	17.32	38.9	16.38	19.38	18.33
TSM-580NEG19RC. Series	643	47.2	17.34	39.2	16.39	19.41	18.35
TSM-585NEG19RC. Series	648	47.5	17.37	39.5	16.41	19.44	18.36
TSM-590NEG19RC. Series	654	47.8	17.42	39.7	16.47	19.49	18.43
TSM-595NEG19RC. Series	659	48.1	17.46	40.0	16.48	19.54	18.45
TSM-600NEG19RC. Series	665	48.4	17.51	40.3	16.5	19.59	18.46
TSM-605NEG19RC. Series	670	48.7	17.54	40.5	16.55	19.63	18.52
TSM-610NEG19RC. Series	676	49	17.57	40.8	16.57	19.67	18.54
TSM-615NEG19RC. Series	681	49.3	17.61	41.1	16.58	19.70	18.55
TSM-620NEG19RC. Series	687	49.6	17.63	41.4	16.59	19.73	18.57

Product Series	BNPI					BSI	
	Pmax (W)	Voc(V)	Isc(A)	Vmpp(V)	Impp(A)	Isc(A)	Impp(A)
TSM-410NEG9RC. Series	454	49.8	11.60	41.8	10.87	12.98	12.16
TSM-415NEG9RC. Series	460	50.1	11.63	42.1	10.92	13.02	12.22
TSM-420NEG9RC. Series	465	50.5	11.67	42.5	10.95	13.06	12.25
TSM-425NEG9RC. Series	471	50.9	11.70	42.9	10.98	13.09	12.28
TSM-430NEG9RC. Series	476	51.4	11.73	43.2	11.03	13.13	12.34
TSM-435NEG9RC. Series	482	51.8	11.79	43.6	11.05	13.19	12.37
TSM-440NEG9RC. Series	488	52.2	11.82	44	11.08	13.23	12.40
TSM-445NEG9RC. Series	493	52.6	11.87	44.3	11.13	13.28	12.46



TSM-450NEG9RC. Series	499	52.9	11.90	44.6	11.18	13.32	12.51
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