



Certificate of Compliance

Certificate: 80151490 **Master Contract:** 303385
Project: 80151490 **Date Issued:** 2023-02-06
Issued to: Sunpal Power Co. Ltd.
3rd Floor, Xincheng Electric Power Building, No. 398,
Ganquan Road, Shushan District, Hefei City, Anhui Province, 230000
China

Attention: Silvia Wang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Qiang (Sean) Jiang
Qiang (Sean) Jiang

PRODUCTS

CLASS - C531190 - POWER SUPPLIES-Photovoltaic Modules and Panels - Certified to US Standards
CLASS - C531110 - POWER SUPPLIES-Photovoltaic Modules and Panels

Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-66H (xxx=630-700, in steps of 5), Fuse rating 30A, NOCT: 45+/-2°C.
Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-60H (xxx=570-630, in steps of 5), Fuse rating 30A, NOCT: 45+/-2°C.
Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-55H (xxx=525-575, in steps of 5), Fuse rating 30A, NOCT: 45+/-2°C.
Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-66HB (xxx=620-695, in steps of 5), Fuse rating 30A, NOCT: 45+/-2°C.
Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-60HB (xxx=560-615, in steps of 5), Fuse rating 30A, NOCT: 45+/-2°C.
Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-55HB (xxx=520-565, in steps of 5), Fuse rating 30A, NOCT: 45+/-2°C.
Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-78H (xxx=570-625, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-72H (xxx=520-575, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.



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Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-66H (xxx=480-525, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-60H (xxx=440-480, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-54H (xxx=395-430, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-78HB (xxx=565-620, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-72HB (xxx=520-570, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-66HB (xxx=475-525, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-60HB (xxx=435-475, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-54HB (xxx=390-425, in steps of 5), Fuse rating 25A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-72H (xxx=440-475, in steps of 5), Fuse rating 20A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-60H (xxx=350-395, in steps of 5), Fuse rating 20A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-72HB (xxx=435-470, in steps of 5), Fuse rating 20A, NOCT: 45+/-2°C.
 Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 Vdc, model series: SPxxxM-60HB (xxx=350-390, in steps of 5), Fuse rating 20A, NOCT: 45+/-2°C.

Notes:

1. The electrical characteristics are within ± 5 percent of the rated values of I_{sc} , V_{oc} , and P_{max} under standard test conditions (irradiance of 1000 W/m², AM 1.5 spectrum, and a cell temperature of 25°C (77°F)).
2. The operating ambient temperature of these devices may exceed 40 °C at full load for all wire sizes if it is determined suitable in the field use application.

Model	Open Circuit Voltage at STC (V dc)	Short Circuit Current at STC (A dc)	Rated Voltage at STC (V dc)	Rated Current at STC (A dc)	Rated Maximum Power at STC (Watts)
SPxxxM-66H (xxx=630-700, in steps of 5) with 210mm cell					
SP630M-66H	44.50	18.23	36.60	17.22	630
SP635M-66H	44.70	18.28	36.80	17.26	635
SP640M-66H	44.90	18.33	37.00	17.30	640
SP645M-66H	45.10	18.38	37.20	17.34	645
SP650M-66H	45.30	18.43	37.40	17.39	650
SP655M-66H	45.50	18.48	37.60	17.43	655
SP660M-66H	45.70	18.53	37.80	17.47	660
SP665M-66H	45.90	18.58	38.00	17.50	665
SP670M-66H	46.10	18.63	38.20	17.54	670



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Model	Open Circuit Voltage at STC (V dc)	Short Circuit Current at STC (A dc)	Rated Voltage at STC (V dc)	Rated Current at STC (A dc)	Rated Maximum Power at STC (Watts)
SP675M-66H	46.30	18.68	38.40	17.58	675
SP680M-66H	46.50	18.73	38.60	17.62	680
SP685M-66H	46.70	18.78	38.80	17.66	685
SP690M-66H	46.90	18.83	39.00	17.70	690
SP695M-66H	47.10	18.88	39.20	17.73	695
SP700M-66H	47.30	18.93	39.40	17.77	700
SPxxxM-60H (xxx=570-630, in steps of 5) with 210mm cell					
SP570M-60H	40.30	18.22	33.20	17.17	570
SP575M-60H	40.50	18.27	33.40	17.22	575
SP580M-60H	40.70	18.32	33.60	17.27	580
SP585M-60H	40.90	18.37	33.80	17.31	585
SP590M-60H	41.10	18.42	34.00	17.36	590
SP595M-60H	41.30	18.47	34.20	17.40	595
SP600M-60H	41.50	18.52	34.40	17.45	600
SP605M-60H	41.70	18.57	34.60	17.49	605
SP610M-60H	41.90	18.62	34.80	17.53	610
SP615M-60H	42.10	18.67	35.00	17.58	615
SP620M-60H	42.30	18.72	35.20	17.63	620
SP625M-60H	42.50	18.77	35.40	17.66	625
SP630M-60H	42.70	18.82	35.60	17.70	630
SPxxxM-55H (xxx=525-575, in steps of 5) with 210mm cell					
SP525M-55H	36.90	18.26	30.60	17.16	525
SP530M-55H	37.10	18.31	30.80	17.21	530
SP535M-55H	37.30	18.36	31.00	17.26	535
SP540M-55H	37.50	18.41	31.20	17.31	540
SP545M-55H	37.70	18.46	31.40	17.36	545
SP550M-55H	37.90	18.51	31.60	17.41	550
SP555M-55H	38.10	18.56	31.80	17.46	555
SP560M-55H	38.30	18.61	32.00	17.50	560
SP565M-55H	38.50	18.66	32.20	17.55	565
SP570M-55H	38.70	18.71	32.40	17.59	570
SP575M-55H	38.90	18.76	32.60	17.64	575
SPxxxM-66HB (xxx=620-695, in steps of 5) with 210mm cell					
SP620M-66HB	44.42	18.07	36.52	16.99	620
SP625M-66HB	44.62	18.12	36.72	17.03	625
SP630M-66HB	44.82	18.17	36.92	17.07	630
SP635M-66HB	45.02	18.22	37.12	17.11	635
SP640M-66HB	45.22	18.27	37.32	17.15	640
SP645M-66HB	45.42	18.32	37.52	17.20	645
SP650M-66HB	45.62	18.37	37.72	17.24	650
SP655M-66HB	45.82	18.42	37.92	17.28	655
SP660M-66HB	46.02	18.47	38.12	17.32	660
SP665M-66HB	46.22	18.52	38.32	17.36	665
SP670M-66HB	46.42	18.57	38.52	17.40	670



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SP675M-66HB	46.62	18.62	38.72	17.44	675
SP680M-66HB	46.82	18.67	38.92	17.48	680
SP685M-66HB	47.02	18.72	39.12	17.52	685
SP690M-66HB	47.22	18.77	39.32	17.55	690
SP695M-66HB	47.42	18.82	39.52	17.59	695
SPxxxM-60HB (xxx=560-615, in steps of 5) with 210mm cell					
SP560M-60HB	40.22	18.06	33.12	16.91	560
SP565M-60HB	40.42	18.11	33.32	16.96	565
SP570M-60HB	40.62	18.16	33.52	17.01	570
SP575M-60HB	40.82	18.21	33.72	17.06	575
SP580M-60HB	41.02	18.26	33.92	17.10	580
SP585M-60HB	41.22	18.31	34.12	17.15	585
SP590M-60HB	41.42	18.36	34.32	17.20	590
SP595M-60HB	41.62	18.41	34.52	17.24	595
SP600M-60HB	41.82	18.46	34.72	17.29	600
SP605M-60HB	42.02	18.51	34.92	17.33	605
SP610M-60HB	42.22	18.56	35.12	17.37	610
SP615M-60HB	42.42	18.60	35.32	17.42	615
SPxxxM-55HB (xxx=520-565, in steps of 5) with 210mm cell					
SP520M-55HB	37.00	18.15	30.72	16.94	520
SP525M-55HB	37.20	18.20	30.92	16.99	525
SP530M-55HB	37.40	18.25	31.12	17.04	530
SP535M-55HB	37.60	18.30	31.32	17.09	535
SP540M-55HB	37.82	18.35	31.52	17.14	540
SP545M-55HB	38.02	18.40	31.72	17.19	545
SP550M-55HB	38.22	18.45	31.92	17.24	550
SP555M-55HB	38.42	18.50	32.12	17.28	555
SP560M-55HB	38.62	18.55	32.32	17.33	560
SP565M-55HB	38.82	18.60	32.52	17.38	565
SPxxxM-78H (xxx=570-625, in steps of 5) with 182mm cell					
SP570M-78H	53.33	44.12	13.62	12.93	570
SP575M-78H	53.43	44.22	13.69	13.01	575
SP580M-78H	53.53	44.32	13.76	13.09	580
SP585M-78H	53.63	44.42	13.83	13.17	585
SP590M-78H	53.73	44.52	13.90	13.26	590
SP595M-78H	53.83	44.62	13.97	13.34	595
SP600M-78H	53.93	44.72	14.04	13.42	600
SP605M-78H	54.03	44.82	14.11	13.50	605
SP610M-78H	54.13	44.92	14.18	13.58	610
SP615M-78H	54.23	45.02	14.25	13.67	615
SP620M-78H	54.33	45.12	14.32	13.75	620
SP625M-78H	54.43	45.22	14.39	13.83	625
SPxxxM-72H (xxx=520-575, in steps of 5) with 182mm cell					
SP520M-72H	49.04	40.35	13.58	12.92	520



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SP525M-72H	49.14	40.43	13.65	13.00	525
SP530M-72H	49.24	40.53	13.72	13.08	530
SP535M-72H	49.34	40.63	13.79	13.17	535
SP540M-72H	49.44	40.72	13.86	13.27	540
SP545M-72H	49.54	40.81	13.93	13.36	545
SP550M-72H	49.64	40.90	14.00	13.45	550
SP555M-72H	49.74	40.99	14.07	13.54	555
SP560M-72H	49.84	41.08	14.14	13.64	560
SP565M-72H	49.94	41.17	14.21	13.73	565
SP570M-72H	50.04	41.26	14.28	13.82	570
SP575M-72H	50.14	41.35	14.35	13.91	575
SPxxxM-66H (xxx=480-525, in steps of 5) with 182mm cell					
SP480M-66H	48.22	39.94	12.92	12.03	480
SP485M-66H	48.34	40.08	12.99	12.11	485
SP490M-66H	48.46	40.22	13.06	12.19	490
SP495M-66H	48.58	40.36	13.13	12.27	495
SP500M-66H	48.70	40.50	13.20	12.35	500
SP505M-66H	48.82	40.64	13.27	12.43	505
SP510M-66H	48.94	40.78	13.34	12.51	510
SP515M-66H	49.06	40.92	13.41	12.59	515
SP520M-66H	49.18	41.06	13.48	12.67	520
SP525M-66H	49.30	41.20	13.55	12.75	525
SPxxxM-60H (xxx=440-480, in steps of 5) with 182mm cell					
SP440M-60H	41.02	33.72	13.73	13.05	440
SP445M-60H	41.12	33.84	13.80	13.16	445
SP450M-60H	41.22	33.96	13.87	13.26	450
SP455M-60H	41.32	34.08	13.94	13.36	455
SP460M-60H	41.42	34.20	14.01	13.46	460
SP465M-60H	41.52	34.32	14.08	13.55	465
SP470M-60H	41.62	34.44	14.15	13.65	470
SP475M-60H	41.72	34.56	14.22	13.75	475
SP480M-60H	41.82	34.68	14.29	13.85	480
SPxxxM-54H (xxx=395-430, in steps of 5) with 182mm cell					
SP395M-54H	36.90	30.32	13.71	13.03	395
SP400M-54H	36.98	30.42	13.78	13.15	400
SP405M-54H	37.06	30.52	13.85	13.27	405
SP410M-54H	37.14	30.62	13.92	13.39	410
SP415M-54H	37.22	30.72	13.99	13.51	415
SP420M-54H	37.30	30.82	14.06	13.63	420
SP425M-54H	37.38	30.92	14.13	13.75	425
SP430M-54H	37.46	31.02	14.20	13.87	430
SPxxxM-78HB (xxx=565-620, in steps of 5) with 182mm cell					
SP565M-78HB	53.37	44.16	13.51	12.80	565
SP570M-78HB	53.47	44.26	13.58	12.88	570



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SP575M-78HB	53.57	44.36	13.65	12.97	575
SP580M-78HB	53.67	44.46	13.72	13.05	580
SP585M-78HB	53.77	44.56	13.79	13.13	585
SP590M-78HB	53.87	44.66	13.86	13.22	590
SP595M-78HB	53.97	44.76	13.93	13.30	595
SP600M-78HB	54.07	44.86	14.00	13.38	600
SP605M-78HB	54.17	44.96	14.07	13.46	605
SP610M-78HB	54.27	45.06	14.14	13.54	610
SP615M-78HB	54.37	45.16	14.21	13.62	615
SP620M-78HB	54.47	45.26	14.28	13.70	620
SPxxxM-72HB (xxx=520-570, in steps of 5) with 182mm cell					
SP520M-72HB	49.18	40.50	13.54	12.84	520
SP525M-72HB	49.28	40.59	13.61	12.94	525
SP530M-72HB	49.38	40.68	13.68	13.03	530
SP535M-72HB	49.48	40.77	13.75	13.13	535
SP540M-72HB	49.58	40.86	13.82	13.22	540
SP545M-72HB	49.68	40.95	13.89	13.31	545
SP550M-72HB	49.78	41.04	13.96	13.41	550
SP555M-72HB	49.88	41.13	14.03	13.50	555
SP560M-72HB	49.98	41.22	14.10	13.59	560
SP565M-72HB	50.08	41.31	14.17	13.68	565
SP570M-72HB	50.18	41.40	14.24	13.77	570
SPxxxM-66HB (xxx=475-525, in steps of 5) with 182mm cell					
SP475M-66HB	48.24	39.94	12.81	11.90	475
SP480M-66HB	48.36	40.08	12.88	11.98	480
SP485M-66HB	48.48	40.22	12.95	12.06	485
SP490M-66HB	48.60	40.36	13.02	12.15	490
SP495M-66HB	48.72	40.50	13.09	12.23	495
SP500M-66HB	48.84	40.64	13.16	12.31	500
SP505M-66HB	48.96	40.78	13.23	12.39	505
SP510M-66HB	49.08	40.92	13.30	12.47	510
SP515M-66HB	49.20	41.06	13.37	12.55	515
SP520M-66HB	49.32	41.20	13.44	12.63	520
SP525M-66HB	49.44	41.34	13.51	12.71	525
SPxxxM-60HB (xxx=435-475, in steps of 5) with 182mm cell					
SP435M-60HB	41.06	33.74	13.62	12.90	435
SP440M-60HB	41.16	33.86	13.69	13.00	440
SP445M-60HB	41.26	33.98	13.76	13.10	445
SP450M-60HB	41.36	34.10	13.83	13.20	450
SP455M-60HB	41.46	34.22	13.90	13.30	455
SP460M-60HB	41.56	34.34	13.97	13.40	460
SP465M-60HB	41.66	34.46	14.04	13.50	465
SP470M-60HB	41.76	34.58	14.11	13.60	470
SP475M-60HB	41.86	34.70	14.18	13.70	475



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SPxxxM-54HB (xxx=390-425, in steps of 5) with 182mm cell					
SP390M-54HB	36.96	30.36	13.60	12.85	390
SP395M-54HB	37.04	30.46	13.67	12.97	395
SP400M-54HB	37.12	30.56	13.74	13.09	400
SP405M-54HB	37.20	30.66	13.81	13.21	405
SP410M-54HB	37.28	30.76	13.88	13.33	410
SP415M-54HB	37.36	30.86	13.95	13.45	415
SP420M-54HB	37.44	30.96	14.02	13.57	420
SP425M-54HB	37.52	31.06	14.09	13.69	425
SPxxxM-72H (xxx=440-475, in steps of 5) with 166mm cell					
SP440M-72H	49.2	40.6	11.39	10.84	440
SP445M-72H	49.4	40.8	11.46	10.91	445
SP450M-72H	49.6	41.0	11.53	10.98	450
SP455M-72H	49.8	41.2	11.60	11.05	455
SP460M-72H	50.0	41.4	11.67	11.12	460
SP465M-72H	50.2	41.6	11.74	11.18	465
SP470M-72H	50.4	41.8	11.81	11.25	470
SP475M-72H	50.6	42.0	11.88	11.31	475
SPxxxM-60H (xxx=350-395, in steps of 5) with 166mm cell					
SP350M-60H	40.1	33.2	11.09	10.55	350
SP355M-60H	40.4	33.5	11.16	10.60	355
SP360M-60H	40.7	33.8	11.23	10.66	360
SP365M-60H	41.0	34.1	11.30	10.71	365
SP370M-60H	41.3	34.4	11.37	10.76	370
SP375M-60H	41.6	34.7	11.44	10.81	375
SP380M-60H	41.9	35.0	11.51	10.86	380
SP385M-60H	42.2	35.3	11.58	10.91	385
SP390M-60H	42.5	35.6	11.65	10.96	390
SP395M-60H	42.8	35.9	11.72	11.01	395
SPxxxM-72HB (xxx=435-470, in steps of 5) with 166mm cell					
SP435M-72HB	49.36	40.72	11.23	10.69	435
SP440M-72HB	49.56	40.92	11.30	10.76	440
SP445M-72HB	49.76	41.12	11.37	10.83	445
SP450M-72HB	49.96	41.32	11.44	10.90	450
SP455M-72HB	50.16	41.52	11.51	10.96	455
SP460M-72HB	50.36	41.72	11.58	11.03	460
SP465M-72HB	50.56	41.92	11.65	11.10	465
SP470M-72HB	50.76	42.12	11.72	11.17	470
SPxxxM-60HB (xxx=350-385, in steps of 5) with 166mm cell					
SP350M-60HB	40.64	33.58	11.00	10.43	350
SP355M-60HB	40.94	33.88	11.07	10.48	355
SP360M-60HB	41.24	34.18	11.14	10.54	360
SP365M-60HB	41.54	34.48	11.21	10.59	365
SP370M-60HB	41.84	34.78	11.28	10.64	370



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Model	Open Circuit Voltage at STC (V dc)	Short Circuit Current at STC (A dc)	Rated Voltage at STC (V dc)	Rated Current at STC (A dc)	Rated Maximum Power at STC (Watts)
SP375M-60HB	42.14	35.08	11.35	10.69	375
SP380M-60HB	42.44	35.38	11.42	10.75	380
SP385M-60HB	42.74	35.68	11.49	10.80	385
SP390M-60HB	43.04	36.08	11.56	10.82	390

APPLICABLE REQUIREMENTS

CSA C22.2 No. 61730-1:19 Photovoltaic (PV) module safety qualification — Part 1: Requirements for construction, 2019-12.

CSA C22.2 No. 61730-2:19 Photovoltaic (PV) module safety qualification — Part 2: Requirements for testing, 2019-12.

UL 61730-1 1st: Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction, 2017-12-04, revision date 2020-04-30.

UL 61730-2 1st: Photovoltaic (PV) Module Safety Qualification – Part 2: Requirements for Testing, 2017-12-04, revision date 2020-04-30.

Notes:

Products certified under Class C531110 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

Certificate: 80151490

Master Contract: 303385

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80151490	2023-02-06	Original certificate, new model series: 78H/78HB, 72H/72HB, 66H/66HB, 60H/60HB, 55H/55HB, 54H/54HB.