



Certificate of Compliance

Certificate: 80167581

Master Contract: 303892

Project: 80206294

Date Issued: 2024-05-24

Issued to: Hounen Solar America Inc.
145 Millennium
Dr, Orangeburg, South Carolina, 29115
United States

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 5311 10 - POWER SUPPLIES - Photovoltaic Modules and Panels

CLASS 5311 90 - POWER SUPPLIES - Photovoltaic Modules and Panels - Certified to U.S. Standards

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SPDB156-xxx/M (xxx=560-610 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SHDB156-xxx/M (xxx=560-610 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SPDB144-xxx/M (xxx=520-560 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SHDB144-xxx/M (xxx=520-560 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SPDB132-xxx/M (xxx=475-515 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SHDB132-xxx/M (xxx=475-515 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SPDB120-xxx/M (xxx=435-470 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SHDB120-xxx/M (xxx=435-470 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SPDB108-xxx/M (xxx=390-420 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: HNM7-SHDB108-xxx/M (xxx=390-420 in steps of 5), Fuse rating 30A.



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Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM8-TPLDD132-xxx/M (xxx=630-670 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM8-THLDD132-xxx/M (xxx=630-670 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM8-TPLDD120-xxx/M (xxx=575-610 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM8-THLDD120-xxx/M (xxx=575-610 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UPLDD156-xxx/N (xxx=585-635 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UHLDD156-xxx/N (xxx=585-635 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UPLDD144-xxx/N (xxx=540-585 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UHLDD144-xxx/N (xxx=540-585 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UPLDD132-xxx/N (xxx=495-535 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UHLDD132-xxx/N (xxx=495-535 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UPLDD120-xxx/N (xxx=450-490 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UHLDD120-xxx/N (xxx=450-490 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UPLDD108-xxx/N (xxx=405-440 in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: HNM7-UHLDD108-xxx/N (xxx=405-440 in steps of 5), Fuse rating 30A.

Notes:

1. The electrical characteristics are within ± 3 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)
HNM7-SPDB156-xxx/M (xxx=560-610 in steps of 5)					
HNM7-SPDB156-560/M	52.2	13.53	43.9	12.76	560
HNM7-SPDB156-565/M	52.4	13.58	44.1	12.82	565
HNM7-SPDB156-570/M	52.6	13.63	44.3	12.87	570
HNM7-SPDB156-575/M	52.8	13.68	44.5	12.93	575



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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)
HNM7-SPDB156-580/M	53.0	13.73	44.7	12.98	580
HNM7-SPDB156-585/M	53.2	13.78	44.9	13.03	585
HNM7-SPDB156-590/M	53.4	13.83	45.1	13.09	590
HNM7-SPDB156-595/M	53.6	13.88	45.3	13.14	595
HNM7-SPDB156-600/M	53.8	13.93	45.5	13.19	600
HNM7-SPDB156-605/M	54.0	13.98	45.7	13.24	605
HNM7-SPDB156-610/M	54.2	14.03	45.9	13.29	610
HNM7-SHDB156-xxx/M (xxx=560-610 in steps of 5)					
HNM7-SHDB156-560/M	52.2	13.53	43.9	12.76	560
HNM7-SHDB156-565/M	52.4	13.58	44.1	12.82	565
HNM7-SHDB156-570/M	52.6	13.63	44.3	12.87	570
HNM7-SHDB156-575/M	52.8	13.68	44.5	12.93	575
HNM7-SHDB156-580/M	53.0	13.73	44.7	12.98	580
HNM7-SHDB156-585/M	53.2	13.78	44.9	13.03	585
HNM7-SHDB156-590/M	53.4	13.83	45.1	13.09	590
HNM7-SHDB156-595/M	53.6	13.88	45.3	13.14	595
HNM7-SHDB156-600/M	53.8	13.93	45.5	13.19	600
HNM7-SHDB156-605/M	54.0	13.98	45.7	13.24	605
HNM7-SHDB156-610/M	54.2	14.03	45.9	13.29	610
HNM7-SPDB144-xxx/M (xxx=520-560 in steps of 5)					
HNM7-SPDB144-520/M	49.0	13.53	40.7	12.79	520
HNM7-SPDB144-525/M	49.2	13.59	40.9	12.85	525
HNM7-SPDB144-530/M	49.4	13.65	41.1	12.91	530
HNM7-SPDB144-535/M	49.6	13.71	41.3	12.96	535
HNM7-SPDB144-540/M	49.8	13.77	41.5	13.02	540
HNM7-SPDB144-545/M	50.0	13.83	41.7	13.07	545
HNM7-SPDB144-550/M	50.2	13.89	41.9	13.13	550
HNM7-SPDB144-555/M	50.4	13.95	42.1	13.19	555
HNM7-SPDB144-560/M	50.6	14.01	42.3	13.24	560
HNM7-SHDB144-xxx/M (xxx=520-560 in steps of 5)					
HNM7-SHDB144-520/M	49.0	13.53	40.7	12.79	520
HNM7-SHDB144-525/M	49.2	13.59	40.9	12.85	525
HNM7-SHDB144-530/M	49.4	13.65	41.1	12.91	530
HNM7-SHDB144-535/M	49.6	13.71	41.3	12.96	535
HNM7-SHDB144-540/M	49.8	13.77	41.5	13.02	540
HNM7-SHDB144-545/M	50.0	13.83	41.7	13.07	545
HNM7-SHDB144-550/M	50.2	13.89	41.9	13.13	550
HNM7-SHDB144-555/M	50.4	13.95	42.1	13.19	555
HNM7-SHDB144-560/M	50.6	14.01	42.3	13.24	560
HNM7-SPDB132-xxx/M (xxx=475-515 in steps of 5)					
HNM7-SPDB132-475/M	44.8	13.54	37.2	12.77	475
HNM7-SPDB132-480/M	45.0	13.60	37.4	12.84	480
HNM7-SPDB132-485/M	45.2	13.66	37.6	12.90	485
HNM7-SPDB132-490/M	45.4	13.72	37.8	12.97	490



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HNM7-SPDB132-495/M	45.6	13.78	38.0	13.03	495
HNM7-SPDB132-500/M	45.8	13.84	38.2	13.09	500
HNM7-SPDB132-505/M	46.0	13.90	38.4	13.16	505
HNM7-SPDB132-510/M	46.2	13.96	38.6	13.22	510
HNM7-SPDB132-515/M	46.4	14.02	38.8	13.28	515
HNM7-SHDB132-xxx/M (xxx=475-515 in steps of 5)					
HNM7-SHDB132-475/M	44.8	13.54	37.2	12.77	475
HNM7-SHDB132-480/M	45.0	13.60	37.4	12.84	480
HNM7-SHDB132-485/M	45.2	13.66	37.6	12.90	485
HNM7-SHDB132-490/M	45.4	13.72	37.8	12.97	490
HNM7-SHDB132-495/M	45.6	13.78	38.0	13.03	495
HNM7-SHDB132-500/M	45.8	13.84	38.2	13.09	500
HNM7-SHDB132-505/M	46.0	13.90	38.4	13.16	505
HNM7-SHDB132-510/M	46.2	13.96	38.6	13.22	510
HNM7-SHDB132-515/M	46.4	14.02	38.8	13.28	515
HNM7-SPDB120-xxx/M (xxx=435-470 in steps of 5)					
HNM7-SPDB120-435/M	40.9	13.55	34.0	12.80	435
HNM7-SPDB120-440/M	41.1	13.62	34.2	12.87	440
HNM7-SPDB120-445/M	41.3	13.69	34.4	12.94	445
HNM7-SPDB120-450/M	41.5	13.76	34.6	13.01	450
HNM7-SPDB120-455/M	41.7	13.83	34.8	13.08	455
HNM7-SPDB120-460/M	41.9	13.90	35.0	13.15	460
HNM7-SPDB120-465/M	42.1	13.97	35.2	13.22	465
HNM7-SPDB120-470/M	42.3	14.04	35.4	13.28	470
HNM7-SHDB120-xxx/M (xxx=435-470 in steps of 5)					
HNM7-SHDB120-435/M	40.9	13.55	34.0	12.80	435
HNM7-SHDB120-440/M	41.1	13.62	34.2	12.87	440
HNM7-SHDB120-445/M	41.3	13.69	34.4	12.94	445
HNM7-SHDB120-450/M	41.5	13.76	34.6	13.01	450
HNM7-SHDB120-455/M	41.7	13.83	34.8	13.08	455
HNM7-SHDB120-460/M	41.9	13.90	35.0	13.15	460
HNM7-SHDB120-465/M	42.1	13.97	35.2	13.22	465
HNM7-SHDB120-470/M	42.3	14.04	35.4	13.28	470
HNM7-SPDB108-xxx/M (xxx=390-420 in steps of 5)					
HNM7-SPDB108-390/M	36.7	13.54	30.5	12.79	390
HNM7-SPDB108-395/M	36.9	13.62	30.7	12.87	395
HNM7-SPDB108-400/M	37.1	13.70	30.9	12.95	400
HNM7-SPDB108-405/M	37.3	13.78	31.1	13.03	405
HNM7-SPDB108-410/M	37.5	13.86	31.3	13.10	410
HNM7-SPDB108-415/M	37.7	13.94	31.5	13.18	415
HNM7-SPDB108-420/M	37.9	14.02	31.7	13.25	420
HNM7-SHDB108-xxx/M (xxx=390-420 in steps of 5)					
HNM7-SHDB108-390/M	36.7	13.54	30.5	12.79	390
HNM7-SHDB108-395/M	36.9	13.62	30.7	12.87	395



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HNM7-SHDB108-400/M	37.1	13.70	30.9	12.95	400
HNM7-SHDB108-405/M	37.3	13.78	31.1	13.03	405
HNM7-SHDB108-410/M	37.5	13.86	31.3	13.10	410
HNM7-SHDB108-415/M	37.7	13.94	31.5	13.18	415
HNM7-SHDB108-420/M	37.9	14.02	31.7	13.25	420
HNM8-TPLDD132-xxx/M (xxx=630-670 in steps of 5)					
HNM8-TPLDD132-630/M	44.4	18.07	36.9	17.08	630
HNM8-TPLDD132-635/M	44.6	18.12	37.1	17.12	635
HNM8-TPLDD132-640/M	44.8	18.17	37.3	17.16	640
HNM8-TPLDD132-645/M	45.0	18.22	37.5	17.21	645
HNM8-TPLDD132-650/M	45.2	18.27	37.7	17.25	650
HNM8-TPLDD132-655/M	45.4	18.32	37.9	17.29	655
HNM8-TPLDD132-660/M	45.6	18.37	38.1	17.33	660
HNM8-TPLDD132-665/M	45.8	18.42	38.3	17.37	665
HNM8-TPLDD132-670/M	46.0	18.47	38.5	17.41	670
HNM8-THLDD132-xxx/M (xxx=630-670 in steps of 5)					
HNM8-THLDD132-630/M	44.4	18.07	36.9	17.08	630
HNM8-THLDD132-635/M	44.6	18.12	37.1	17.12	635
HNM8-THLDD132-640/M	44.8	18.17	37.3	17.16	640
HNM8-THLDD132-645/M	45.0	18.22	37.5	17.21	645
HNM8-THLDD132-650/M	45.2	18.27	37.7	17.25	650
HNM8-THLDD132-655/M	45.4	18.32	37.9	17.29	655
HNM8-THLDD132-660/M	45.6	18.37	38.1	17.33	660
HNM8-THLDD132-665/M	45.8	18.42	38.3	17.37	665
HNM8-THLDD132-670/M	46.0	18.47	38.5	17.41	670
HNM8-TPLDD120-xxx/M (xxx=575-610 in steps of 5)					
HNM8-TPLDD120-575/M	40.5	18.13	33.5	17.17	575
HNM8-TPLDD120-580/M	40.7	18.17	33.7	17.22	580
HNM8-TPLDD120-585/M	40.9	18.21	33.9	17.26	585
HNM8-TPLDD120-590/M	41.1	18.25	34.1	17.31	590
HNM8-TPLDD120-595/M	41.3	18.29	34.3	17.35	595
HNM8-TPLDD120-600/M	41.5	18.33	34.5	17.40	600
HNM8-TPLDD120-605/M	41.7	18.37	34.7	17.44	605
HNM8-TPLDD120-610/M	41.9	18.41	34.9	17.48	610
HNM8-THLDD120-xxx/M (xxx=575-610 in steps of 5)					
HNM8-THLDD120-575/M	40.5	18.13	33.5	17.17	575
HNM8-THLDD120-580/M	40.7	18.17	33.7	17.22	580
HNM8-THLDD120-585/M	40.9	18.21	33.9	17.26	585
HNM8-THLDD120-590/M	41.1	18.25	34.1	17.31	590
HNM8-THLDD120-595/M	41.3	18.29	34.3	17.35	595
HNM8-THLDD120-600/M	41.5	18.33	34.5	17.40	600
HNM8-THLDD120-605/M	41.7	18.37	34.7	17.44	605
HNM8-THLDD120-610/M	41.9	18.41	34.9	17.48	610
HNM7-UPLDD156-xxx/N (xxx=585-635 in steps of 5)					



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HNMM7-UPLDD156-585/N	54.1	13.86	44.7	13.09	585
HNMM7-UPLDD156-590/N	54.3	13.91	44.9	13.15	590
HNMM7-UPLDD156-595/N	54.5	13.96	45.1	13.20	595
HNMM7-UPLDD156-600/N	54.7	14.01	45.3	13.25	600
HNMM7-UPLDD156-605/N	54.9	14.06	45.5	13.30	605
HNMM7-UPLDD156-610/N	55.1	14.11	45.7	13.35	610
HNMM7-UPLDD156-615/N	55.3	14.16	45.9	13.40	615
HNMM7-UPLDD156-620/N	55.5	14.21	46.1	13.45	620
HNMM7-UPLDD156-625/N	55.7	14.26	46.3	13.50	625
HNMM7-UPLDD156-630/N	55.9	14.31	46.5	13.55	630
HNMM7-UPLDD156-635/N	56.1	14.36	46.7	13.60	635
HNMM7-UHLDD156-xxx/N (xxx=585-635 in steps of 5)					
HNMM7-UHLDD156-585/N	54.1	13.86	44.7	13.09	585
HNMM7-UHLDD156-590/N	54.3	13.91	44.9	13.15	590
HNMM7-UHLDD156-595/N	54.5	13.96	45.1	13.20	595
HNMM7-UHLDD156-600/N	54.7	14.01	45.3	13.25	600
HNMM7-UHLDD156-605/N	54.9	14.06	45.5	13.30	605
HNMM7-UHLDD156-610/N	55.1	14.11	45.7	13.35	610
HNMM7-UHLDD156-615/N	55.3	14.16	45.9	13.40	615
HNMM7-UHLDD156-620/N	55.5	14.21	46.1	13.45	620
HNMM7-UHLDD156-625/N	55.7	14.26	46.3	13.50	625
HNMM7-UHLDD156-630/N	55.9	14.31	46.5	13.55	630
HNMM7-UHLDD156-635/N	56.1	14.36	46.7	13.60	635
HNMM7-UPLDD144-xxx/N (xxx=540-585 in steps of 5)					
HNMM7-UPLDD144-540/N	49.9	13.87	41.2	13.11	540
HNMM7-UPLDD144-545/N	50.1	13.93	41.4	13.17	545
HNMM7-UPLDD144-550/N	50.3	13.99	41.6	13.23	550
HNMM7-UPLDD144-555/N	50.5	14.05	41.8	13.28	555
HNMM7-UPLDD144-560/N	50.7	14.11	42.0	13.34	560
HNMM7-UPLDD144-565/N	50.9	14.17	42.2	13.39	565
HNMM7-UPLDD144-570/N	51.1	14.23	42.4	13.45	570
HNMM7-UPLDD144-575/N	51.3	14.29	42.6	13.50	575
HNMM7-UPLDD144-580/N	51.5	14.35	42.8	13.56	580
HNMM7-UPLDD144-585/N	51.7	14.41	43.0	13.61	585
HNMM7-UHLDD144-xxx/N (xxx=540-585 in steps of 5)					
HNMM7-UHLDD144-540/N	49.9	13.87	41.2	13.11	540
HNMM7-UHLDD144-545/N	50.1	13.93	41.4	13.17	545
HNMM7-UHLDD144-550/N	50.3	13.99	41.6	13.23	550
HNMM7-UHLDD144-555/N	50.5	14.05	41.8	13.28	555
HNMM7-UHLDD144-560/N	50.7	14.11	42.0	13.34	560
HNMM7-UHLDD144-565/N	50.9	14.17	42.2	13.39	565
HNMM7-UHLDD144-570/N	51.1	14.23	42.4	13.45	570
HNMM7-UHLDD144-575/N	51.3	14.29	42.6	13.50	575
HNMM7-UHLDD144-580/N	51.5	14.35	42.8	13.56	580



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HNМ7-UHLDD144-585/N	51.7	14.41	43.0	13.61	585
HNМ7-UPLDD132-xxx/N (xxx=495-535 in steps of 5)					
HNМ7-UPLDD132-495/N	45.7	13.86	37.8	13.10	495
HNМ7-UPLDD132-500/N	45.9	13.92	38.0	13.16	500
HNМ7-UPLDD132-505/N	46.1	13.98	38.2	13.23	505
HNМ7-UPLDD132-510/N	46.3	14.04	38.4	13.29	510
HNМ7-UPLDD132-515/N	46.5	14.10	38.6	13.35	515
HNМ7-UPLDD132-520/N	46.7	14.16	38.8	13.41	520
HNМ7-UPLDD132-525/N	46.9	14.22	39.0	13.47	525
HNМ7-UPLDD132-530/N	47.1	14.28	39.2	13.53	530
HNМ7-UPLDD132-535/N	47.3	14.34	39.4	13.58	535
HNМ7-UHLDD132-xxx/N (xxx=495-535 in steps of 5)					
HNМ7-UHLDD132-495/N	45.7	13.86	37.8	13.10	495
HNМ7-UHLDD132-500/N	45.9	13.92	38.0	13.16	500
HNМ7-UHLDD132-505/N	46.1	13.98	38.2	13.23	505
HNМ7-UHLDD132-510/N	46.3	14.04	38.4	13.29	510
HNМ7-UHLDD132-515/N	46.5	14.10	38.6	13.35	515
HNМ7-UHLDD132-520/N	46.7	14.16	38.8	13.41	520
HNМ7-UHLDD132-525/N	46.9	14.22	39.0	13.47	525
HNМ7-UHLDD132-530/N	47.1	14.28	39.2	13.53	530
HNМ7-UHLDD132-535/N	47.3	14.34	39.4	13.58	535
HNМ7-UPLDD120-xxx/N (xxx=450-490 in steps of 5)					
HNМ7-UPLDD120-450/N	41.6	13.89	34.3	13.13	450
HNМ7-UPLDD120-455/N	41.8	13.96	34.5	13.19	455
HNМ7-UPLDD120-460/N	42.0	14.03	34.7	13.26	460
HNМ7-UPLDD120-465/N	42.2	14.10	34.9	13.33	465
HNМ7-UPLDD120-470/N	42.4	14.17	35.1	13.40	470
HNМ7-UPLDD120-475/N	42.6	14.24	35.3	13.46	475
HNМ7-UPLDD120-480/N	42.8	14.31	35.5	13.53	480
HNМ7-UPLDD120-485/N	43.0	14.38	35.7	13.59	485
HNМ7-UPLDD120-490/N	43.2	14.45	35.9	13.65	490
HNМ7-UHLDD120-xxx/N (xxx=450-490 in steps of 5)					
HNМ7-UHLDD120-450/N	41.6	13.89	34.3	13.13	450
HNМ7-UHLDD120-455/N	41.8	13.96	34.5	13.19	455
HNМ7-UHLDD120-460/N	42.0	14.03	34.7	13.26	460
HNМ7-UHLDD120-465/N	42.2	14.10	34.9	13.33	465
HNМ7-UHLDD120-470/N	42.4	14.17	35.1	13.40	470
HNМ7-UHLDD120-475/N	42.6	14.24	35.3	13.46	475
HNМ7-UHLDD120-480/N	42.8	14.31	35.5	13.53	480
HNМ7-UHLDD120-485/N	43.0	14.38	35.7	13.59	485
HNМ7-UHLDD120-490/N	43.2	14.45	35.9	13.65	490
HNМ7-UPLDD108-xxx/N (xxx=405-440 in steps of 5)					
HNМ7-UPLDD108-405/N	37.4	13.90	30.9	13.11	405
HNМ7-UPLDD108-410/N	37.6	13.97	31.1	13.19	410



Certificate: 80167581

Master Contract: 303892

Project: 80206294

Date Issued: 2024-05-24

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)
HNМ7-UPLDD108-415/N	37.8	14.04	31.3	13.26	415
HNМ7-UPLDD108-420/N	38.0	14.11	31.5	13.34	420
HNМ7-UPLDD108-425/N	38.2	14.18	31.7	13.41	425
HNМ7-UPLDD108-430/N	38.4	14.25	31.9	13.48	430
HNМ7-UPLDD108-435/N	38.6	14.32	32.1	13.56	435
HNМ7-UPLDD108-440/N	38.8	14.39	32.3	13.63	440
HNМ7-UHLDD108-xxx/N (xxx=405-440 in steps of 5)					
HNМ7-UHLDD108-405/N	37.4	13.90	30.9	13.11	405
HNМ7-UHLDD108-410/N	37.6	13.97	31.1	13.19	410
HNМ7-UHLDD108-415/N	37.8	14.04	31.3	13.26	415
HNМ7-UHLDD108-420/N	38.0	14.11	31.5	13.34	420
HNМ7-UHLDD108-425/N	38.2	14.18	31.7	13.41	425
HNМ7-UHLDD108-430/N	38.4	14.25	31.9	13.48	430
HNМ7-UHLDD108-435/N	38.6	14.32	32.1	13.56	435
HNМ7-UHLDD108-440/N	38.8	14.39	32.3	13.63	440

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 2nd: Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction, 2022-10-28.

UL 61730-2 2nd: Photovoltaic (PV) Module Safety Qualification – Part 2: Requirements for Testing, 2022-10-28, reprint 2023-10-10.

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: 80167581

Master Contract: 303892

*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
80206294	2024-05-24	Update report 80167581 to add new HNM8 & HNM7-UPLDD & HNM7-UHLDD series with new BOM.
80210238	2024-05-17	Update report 80167581 to add new ribbon manufacturers, new substrate, new junction box, new frame manufacturers, new adhesive for junction box and frame, new flux, new position tape, update the standard version of UL 61730.
80191201	2023-12-08	Update report 80167581 to add new factory HOUNEN SOLAR INC CO., LTD.
80167581	2023-09-05	Original certificate for HNM7-SPDB156/144/132/120/108 and HNM7-SHDB156/144/132/120/108 series PV module.