



Certificate of Compliance

Certificate: 80042800

Master Contract: 274817

Project: 80042800

Date Issued: 2020-11-03

Issued To: Peimar Inc
309 Fellowship Road, Suite 115
East Gate Center
Mount Laurel, New Jersey, 08054
United States

Attention: Stefano Caruso

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: Michael Hoffnagle
Michael Hoffnagle



PRODUCTS

CLASS 5311 10 - POWER SUPPLIES - Photovoltaic Modules and Panels

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



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Photovoltaic Modules

- Model SGXXXM Series, mono-crystalline silicon, 72 Cell, where xxx is the power output from 370 W to 360 W.

Model	Rated Max @ STC (Watts)	Voltage at Rated @ Max Power (V)	Current at Rated Max Power @ STC (A)	Open Circuit Voltage @ STC (V)	Short Circuit Current @ STC (A)
	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
SG370M	370	40.1	9.23	48.93	9.81
SG365M	365	39.9	9.15	48.68	9.79
SG360M	360	39.7	9.07	48.44	9.71
Max Series Fuse Rating (A)	15				
Max System Voltage (V)	1500				
Fire Performance Rating	Type 1				

- Model SGXXXP Series, multi-crystalline silicon, 72 Cell, where xxx is the power output from 350 W to 320 W.

Model	Rated Max @ STC (Watts)	Voltage at Rated @ Max Power (V)	Current at Rated Max Power @ STC (A)	Open Circuit Voltage @ STC (V)	Short Circuit Current @ STC (A)
	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
SG350P	350	38.7	9.05	47.22	9.68
SG345P	345	38.5	8.97	46.97	9.59
SG340P	340	38.3	8.88	46.73	9.51
SG335P	335	38.1	8.8	46.49	9.42
SG330P	330	37.9	8.71	46.24	9.32
SG325P	325	37.7	8.63	45.99	9.24
SG320P	320	37.5	8.54	45.75	9.14
Max Series Fuse Rating (A)	15				
Max System Voltage (V)	1500				
Fire Performance Rating	Type 1				



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- Model SGXXXM Series, mono-crystalline silicon, 60 Cell, where xxx is the power output from 315 W to 300 W.

Model	Rated Max @ STC (Watts)	Voltage at Rated @ Max Power (V)	Current at Rated Max Power @ STC (A)	Open Circuit Voltage @ STC (A)	Short Circuit Current @ STC (A)
	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
SG315M	315	33.75	9.34	41.18	9.99
SG310M	310	33.45	9.27	40.81	9.92
SG305M	305	33.25	9.18	40.57	9.83
SG300M	300	33.05	9.08	40.33	9.72
Max Series Fuse Rating (A)	15				
Max System Voltage (V)	1500				
Fire Performance Rating	Type 1				

- Model SGXXXP Series, multi-crystalline silicon, 60 Cell, where xxx is the power output from 290 W to 260 W.

Model	Rated Max @ STC (Watts)	Voltage at Rated @ Max Power (V)	Current at Rated Max Power @ STC (A)	Open Circuit Voltage @ STC (A)	Short Circuit Current @ STC (A)
	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
SG290P	290	32.2	9.01	39.28	9.64
SG285P	285	31.98	8.92	39.02	9.55
SG280P	280	31.78	8.82	38.78	9.43
SG275P	275	31.58	8.71	38.53	9.32
SG270P	270	31.38	8.61	38.29	9.22
SG265P	265	31.18	8.5	38.04	9.09
SG260P	260	30.98	8.4	37.81	8.98
Max Series Fuse Rating (A)	15				
Max System Voltage (V)	1500				
Fire Performance Rating	Type 1				



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- Model SMXXXM Series, mono-crystalline silicon, 72 Cell, where xxx is the power output from 405 W to 340 W.

Model	Rated Max @ STC (Watts)	Voltage at Rated @ Max Power (V)	Current at Rated Max Power @ STC (A)	Open Circuit Voltage @ STC (A)	Short Circuit Current @ STC (A)
	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
SM405M	405	41.5	9.76	50.63	10.34
SM400M	400	41.3	9.69	50.39	10.26
SM395M	395	41.1	9.61	50.14	10.18
SM390M	390	40.9	9.54	49.9	10.1
SM385M	385	40.7	9.46	49.66	10.02
SM380M	380	40.5	9.39	49.41	9.94
SM375M	375	40.3	9.31	49.17	9.86
SM370M	370	40.1	9.24	48.92	9.78
SM365M	365	39.9	9.16	48.68	9.7
SM360M	360	39.7	9.09	48.44	9.62
SM355M	355	39.5	9.01	48.19	9.54
SM350M	350	39.3	8.94	47.95	9.46
SM345M	345	39.1	8.86	47.70	9.38
SM340M	340	38.9	8.79	47.46	9.3
Max Series Fuse Rating (A)	15				
Max System Voltage (V)	1500				
Fire Performance Rating	Type 1				

- Model SMXXXM Series, mono-crystalline silicon, 60 Cell, where xxx is the power output from 340 W to 290 W.

Model	Rated Max @ STC (Watts)	Voltage at Rated @ Max Power (V)	Current at Rated Max Power @ STC (A)	Open Circuit Voltage @ STC (A)	Short Circuit Current @ STC (A)
	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
SM340M	340	34.75	9.79	42.39	10.37
SM335M	335	34.55	9.7	42.16	10.27
SM330M	330	34.35	9.61	41.91	10.18
SM325M	325	34.15	9.52	41.67	10.08
SM320M	320	33.95	9.43	41.42	9.98



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SM315M	315	33.75	9.34	41.18	9.89
SM305M	305	33.55	9.25	40.94	9.79
SM300M	300	33.35	9.16	40.70	9.69
SM295M	295	33.15	9.07	40.45	9.59
SM290M	290	32.95	8.98	40.21	9.50
Max Series Fuse Rating (A)	15				
Max System Voltage (V)	1500				
Fire Performance Rating	Type 1				

Design Load: 3600 Pa
Test Load: 5400 Pa

Notes:

1. Rated electrical characteristics are within +/-10% of measured values at Standard Test Conditions of 100 mW/cm² irradiance, AM 1.5 spectrum, and 25°C.
2. 1500V maximum system voltage can only be used with 1500V rated components (Junction box, connector and cable)

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 61730-1:19	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction
CAN/CSA-C22.2 No. 61730-2:19	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
UL 61730-1:2017	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction
UL 61730-2:2017	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing



MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

1. The following markings appear on the enclosure by silk-screening, permanent ink stamping, on adhesive labels that appear on the CSA List of Accepted Adhesive Nameplates, or by other permanent method:
Each PV module shall include the following clear and indelible markings:
 - a) Submitter's name and/or CSA Master Contract number "266494".
 - b) Model designation.
 - c) Complete electrical ratings at STC:
 - Open-circuit voltage (include tolerances)
 - Operating voltage
 - Maximum system voltage
 - Short-circuit current (include tolerances)
 - Current at rated operating voltage
 - Maximum power (include tolerances)
 - d) date and place of manufacture; alternatively serial number assuring traceability of date and place of manufacture;
 - e) PV module classification: Class II, as indicated 
 - f) PV module application class: Class A
 - g) For Class II PV modules, the (IEC 60417-6042: Caution, risk of electric shock) symbol shall be applied, the caution mark: 
 - h) Maximum over-current protection rating.
 - i) The CSA Monogram with the "C/US" indicators;
2. All electrical data shall be shown as relative to standard test conditions (STC) (1 000 W/m², (25 ± 2) °C, AM 1.5 according to IEC 60904-3).
3. Polarity of terminals or leads, PV connectors shall be clearly marked indicating the terminal polarity. A module or panel may be identified with one of the following marking statements:
 - "+" and "-" or
 - "POS" and "NEG" or
 - "POSITIVE" and "NEGATIVE"

4. PV connectors or wiring shall be marked in accordance to IEC 62852 with “Do not disconnect under load”. Symbol or warning notice shall be imprinted or labelled close to connector.

The following symbols may be used to show that a PV connector shall not be disconnected under load. See Figures A.1 and A.2.



Figure A.1 – Symbol “DO NOT DISCONNECT UNDER LOAD”

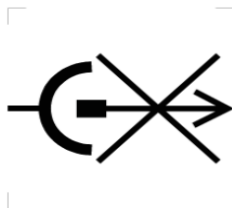



Figure A.2 – Symbol “DO NOT DISCONNECT UNDER LOAD” (IEC 60417-6070)

5. A wiring terminal or bonding location of a PV module intended to accommodate a field installed bonding conductor for equipotential bonding shall be identified with the appropriate symbol IEC 60417-5019 . Each grounding point is identified with ground symbol located adjacent to terminal.
6. PV modules provided with terminals for field wiring rated only for use with copper wire shall be marked, at or adjacent to the terminals, with the statement "Use copper wire only", "Cu only", or the equivalent.
7. PV modules provided with terminals for field wiring rated only for use with a different specific wiring material shall be marked with a similar statement referring to the rated material.
8. PV modules provided with terminals for field wiring rated for use with all types of wiring material do not need to be marked.
9. The recommended maximum series/ parallel module configurations shall be applied to either the module or placed into the instruction and installation manual.
10. A module employing a nonmetallic junction box having a threaded or unthreaded opening shall be marked “for use with nonmetallic conduit systems only” or the equivalent.
11. A module employing a nonmetallic junction box having threaded or unthreaded opening shall be marked “For use with nonmetallic conduit systems only” or the equivalent.
12. System Fire Class Rating: See Installation Instructions for Installation Requirements to Achieve a Specified System Fire Class Rating with this Product, this statement should be marked on the label.
13. Module Fire Performance: Class A (CSA 61730:2019) or Type 1 (UL 61730:2017).



Supplement to Certificate of Compliance

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*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
80042800	2020-11-03	<p>New Certification Evaluation of Peimar PV modules to UL61730 and CAN/CSA 61730 Standards from IEC CB Scheme. Additional models and components were added to the project.</p> <ul style="list-style-type: none">- CB Certificates for IEC 61730-1 and -2 are provided along with supporting IEC test reports- Gap testing only for UL ND- Fire testing will be carried over from UL1703 certification report.