



Certificate of Compliance

Certificate: 80100514

Master Contract: 603380

Project: 80100514

Date Issued: 2021-10-29

Issued to: Grape Solar Inc
2635 West 7th
Pl Eugene, Oregon 97402
United States

Attention: Tracy Zhao

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: Tom Yang
Tom Yang

PRODUCTS

CLASS - C531110 - POWER SUPPLIES-Photovoltaic Modules and Panels

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

Mono Crystalline-Si photovoltaic modules with maximum system voltage of 1500 V dc, Safety Class II PV modules. Single glass models with 166 mm Cells

GS-M120-350-FAB1, GS-M120-355-FAB1, GS-M120-360-FAB1,

GS-M120-365-FAB1, GS-M120-370-FAB1, GS-M120-375-FAB1,

GS-M120-380-FAB1



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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)	Max. Over-Current Protection Rating (A)
GS-M120-350-FAB1	40.2	11.04	33.4	10.48	350	20
GS-M120-355-FAB1	40.4	11.14	33.6	10.57	355	20
GS-M120-360-FAB1	40.6	11.24	33.8	10.66	360	20
GS-M120-365-FAB1	40.8	11.33	34.0	10.74	365	20
GS-M120-370-FAB1	41.0	11.42	34.2	10.82	370	20
GS-M120-375-FAB1	41.2	11.51	34.4	10.91	375	20
GS-M120-380-FAB1	41.4	11.60	34.6	10.99	380	20

Note:

- All electrical data are shown as relative to standard test conditions (STC) (1 000 W/m², (25 ± 2) °C, AM 1,5 according to IEC 60904-3).
- Manufacturer's stated tolerance is ±3% for Voc and Pm, and Isc.
- 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.

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

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.



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Nameplate adhesive label material approval information:

Label: Certified or cUL Recognized.

Manufacturer: AVERY (CHINA) CO., LTD. (PGJI2.MH20558)

Type: 50 micron Matte Silver PET TC/S333

Note: Other certified equivalent may be used (suitable for plastic surface, Group VII).

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 "603380".
 - 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) For Class II PV modules, the (IEC 60417-6042: Caution, risk of electric shock) symbol shall be applied, the caution mark: 
 - g) Maximum over-current protection rating.
 - h) 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"

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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"

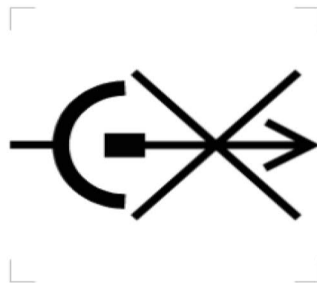




Figure A.2 – Symbol "DO NOT DISCONNECT UNDER LOAD" (IEC 60417-6070)

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  or . 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.



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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: Type 1 or Type 4.



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
80100514	2021-10-29	Multiple Listing for Grape Solar Inc.
Original Report	Submitter's Model	Listee's Model
80049804	ZXM6-NH120-350/M	GS-M120-350-FAB1
80049804	ZXM6-NH120-355/M	GS-M120-355-FAB1
80049804	ZXM6-NH120-360/M	GS-M120-360-FAB1
80049804	ZXM6-NH120-365/M	GS-M120-365-FAB1
80049804	ZXM6-NH120-370/M	GS-M120-370-FAB1
80049804	ZXM6-NH120-375/M	GS-M120-375-FAB1
80049804	ZXM6-NH120-380/M	GS-M120-380-FAB1