

Listing Constructional Data Report (CDR)

1.0 Reference and Address							
Report Number	104527642LAX-002 Original Issued: 31-Mar-2022 Revised: None						
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [UL 61730-1:2017 Ed.1]						
Standard(s)	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [UL 61730-2:2017 Ed.1]						
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]						
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]						
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [IEC 61730-1:2016 Ed.2]						
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [IEC 61730-2:2016 Ed.2]						
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Applicant	Gcat Group Inc.	Manufacturer 1	Gcat Group Inc.				
Address	41 Racine Road Toronto, ON M9W 2Z4	Address	41 Racine Road Toronto, ON M9W 2Z4				
Country	Canada	Country	Canada				
Contact	Danial Hadizadeh Hadi Khatibzadehazad	Contact	Danial Hadizadeh Hadi Khatibzadehazad				
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2.0 Product Description Product Photovoltaic Module Mitrex Brand name The product covered by this report are flat-plate photovoltaic modules which convert elements of the electromagnetic spectrum to DC electrical power. The basic construction of the laminate consists of laminated assembly of individual solar cells and interconnecting ribbons Description encapsulated within an insulating material. This encapsulated assembly is pressed between a rigid transparent top surface, referred to as the superstrate, and an insulating back surface, referred to as the substrate. The laminated assembly is supported by a aluminum honeycomb structure. Modules are intended to be installed in accordance with the NEC and CEC. Models M300-GR01F612, M305-GR01H612, M235-GR01H523. All models of modules are similar in construction but differ in output voltage, power, current ratings, cell number and module dimension. The generic model nomenclature is MxxxyyzzAbcc: M: Denotes Mitrex xxx: Denotes the power in Watts **Model Similarity** yy: Denotes the superstrate pattern [GR = Granite] zz: Denotes pattern number on related category A: Denotes type of cell, F for full cell and H for half cell b: Denotes number of strings (cell columns) cc: Denotes number of cells per string See illustration 2a Ratings Other Ratings

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3.0 Product Photographs

Photo 1 - Overall Front



ED 16.3.15 (16-Oct-2021) Mandatory

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7.0 Illustrations

Illustration 2a - Electrical Ratings

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Pmax [W] Imax [A] Vmax [V] Isc [A] Voc [V] MSV [V] Fuse Rating [A]
M300-GR01F612	300	7.17	41.9	7.49	47	1000	20
Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	[v] vsm	nax [W] Imax [A] Vmax [V] Isc [A] Voc [V] MSV [V] Fuse Rating [A]
M305-GR01H612	305	7.19	42.4	7.49	47.1	1000	20
Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	[v] vsm	nax [W] Imax [A] Vmax [V] Isc [A] Voc [V] MSV [V] Fuse Rating [A]
M235-GR01H523	235	3.42	8.89	3.54	75.1	1000	20

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8.0 Test Summary **Evaluation Period** 06-30-2021 to 03-31-2022 Project No. G104527642 Condition Production Sample Rec. Date 30-Jun-2021 Sample ID. MID2106161125 Test Location 8431 Murphy Drive Middleton, WI 53562 Test Procedure Testing Lab Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria. Test Description UL/CSA 61730-2:2017 Ed.1 Fire Test MST 23

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8.1 Signatures						
A representative sample of the product covered by this report has been evaluated and found to comply with the						
applicable requirements of the standards indicated in Section 1.0.						
Completed by:	Abhinav Prakash	Reviewed by:	Samantha Doshi			
Title:	Sr. Project Engineer	Title:	Reviewer			
Signature:	Alex	Signature:	Suntila			

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9.0 Correlation Page For Multiple Listings The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program. BASIC LISTEE Gcat Group Inc. 41 Racine Road Address Toronto, ON M9W 2Z4 Canada Country **Product** Photovoltaic Module MULTIPLE LISTEE 1 None Address Country **Brand Name ASSOCIATED MANUFACTURER** Address Country MULTIPLE LISTEE 1 MODELS **BASIC LISTEE MODELS** MULTIPLE LISTEE 2 None Address Country **Brand Name ASSOCIATED** MANUFACTURER Address Country MULTIPLE LISTEE 2 MODELS BASIC LISTEE MODELS MULTIPLE LISTEE 3 None Address Country **Brand Name** ASSOCIATED MANUFACTURER Address Country MULTIPLE LISTEE 3 MODELS **BASIC LISTEE MODELS**

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