

1.0 Reference and Address			
Report Number	104527642LAX-001	Original Issued: 27-Feb-2022	Revised: 12-Sep-2022
Standard(s)	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [UL 61730-1:2017 Ed.1] 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]		
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
Phone	1 416 497 7120 1 416 875 8095	Phone	1 416 497 7120 1 416 875 8095
FAX	NA	FAX	NA
Email	daniel.h@mitrex.com hadi.k@mitrex.com	Email	daniel.h@mitrex.com hadi.k@mitrex.com

2.0 Product Description	
Product	Photovoltaic Module
Brand name	Mitrex
Description	<p>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 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 frame which is used for mounting the modules. Modules are intended to be installed in accordance with the NEC and CEC.</p>
	<p>M400-A1F, M395-A1F, M390-A1F, M385-A1F, M380-A1F, M375-A1F, M370-A1F. M400-B1F, M395-B1F, M390-B1F, M385-B1F, M380-B1F, M375-B1F, M370-B1F. M400-A1H, M395-A1H, M390-A1H, M385-A1H, M380-A1H, M375-A1H, M370-A1H. M400-B1H, M395-B1H, M390-B1H, M385-B1H, M380-B1H, M375-B1H, M370-B1H. M335-A2F, M330-A2F, M325-A2F, M320-A2F, M315-A2F, M310-A2F, M305-A2F. M335-B2F, M330-B2F, M325-B2F, M320-B2F, M315-B2F, M310-B2F, M305-B2F. M335-A2H, M330-A2H, M325-A2H, M320-A2H, M315-A2H, M310-A2H, M305-A2H. M335-B2H, M330-B2H, M325-B2H, M320-B2H, M315-B2H, M310-B2H, M305-B2H.</p> <p>M390-CL011F, M385-CL011F, M380-CL011F, M375-CL011F, M370-CL011F, M365-CL011F, M360-CL011F, M355-CL011F, M350-CL011F, M345-CL011F, M340-CL011F, M335-CL011F, M330-CL011F, M325-CL011F, M320-CL011F, M320-CL012F, M315-CL012F, M310-CL012F, M305-CL012F, M300-CL012F, M295-CL012F, M290-CL012F, M285-CL012F, M280-CL012F, M275-CL012F, M270-CL012F, M390-CL011H, M385-CL011H, M380-CL011H, M375-CL011H, M370-CL011H, M365-CL011H, M360-CL011H, M355-CL011H, M350-CL011H, M345-CL011H, M340-CL011H, M335-CL011H, M330-CL011H, M325-CL011H, M320-CL011H, M320-CL012H, M315-CL012H, M310-CL012H, M305-CL012H, M300-CL012H, M295-CL012H, M290-CL012H, M285-CL012H, M280-CL012H, M275-CL012H, M270-CL012H.</p> <p>M305-MR011F, M300-MR011F, M295-MR011F, M290-MR011F, M285-MR011F, M280- MR011F, M275-MR011F, M270-MR011F, M265-MR011F, M260-MR011F, M255-MR011F, M250-MR012F, M245-MR012F, M240-MR012F, M235-MR012F, M230-MR012F, M225- MR012F, M220-MR012F, M215-MR012F, M210-MR012F, M305-MR011H, M300-MR011H,</p>

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M355-RF041F, M350-RF041F, M345-RF041F, M340-RF041F, M335-RF041F, M330-RF041F, M325-RF041F, M320-RF041F, M315-RF041F, M310-RF041F, M305-RF041F, M300-RF041F, M295-RF041F, M295-RF042F, M290-RF042F, M285-RF042F, M280-RF042F, M275-RF042F, M270-RF042F, M265-RF042F, M260-RF042F, M255-RF042F, M250-RF042F, M245-RF042F, M355-RF041H, M350-RF041H, M345-RF041H, M340-RF041H, M335-RF041H, M330-RF041H, M325-RF041H, M320-RF041H, M315-RF041H, M310-RF041H, M305-RF041H, M300-RF041H, M295-RF041H, M295-RF042H, M290-RF042H, M285-RF042H, M280-RF042H, M275-RF042H, M270-RF042H, M265-RF042H, M260-RF042H, M255-RF042H, M250-RF042H, M245-RF042H.

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Models

M265-SL021F, M260-SL021F, M255-SL021F, M250-SL021F, M245-SL021F, M240-SL021F, M235-SL021F, M230-SL021F, M225-SL021F, M220-SL022F, M215-SL022F, M210-SL022F, M205-SL022F, M200-SL022F, M195-SL022F, M190-SL022F, M185-SL022F, M180-SL022F, M265-SL021H, M260-SL021H, M255-SL021H, M250-SL021H, M245-SL021H, M240-SL021H, M235-SL021H, M230-SL021H, M225-SL021H, M220-SL022H, M215-SL022H, M210-SL022H, M205-SL022H, M200-SL022H, M195-SL022H, M190-SL022H, M185-SL022H, M180-SL022H.

M285-BR011F, M280-BR011F, M275-BR011F, M270-BR011F, M265-BR011F, M260-BR011F, M255-BR011F, M250-BR011F, M245-BR011F, M240-BR011F, M235-BR011F, M235-BR012F, M230-BR012F, M225-BR012F, M220-BR012F, M215-BR012F, M210-BR012F, M205-BR012F, M200-BR012F, M195-BR012F, M285-BR011H, M280-BR011H, M275-BR011H, M270-BR011H, M265-BR011H, M260-BR011H, M255-BR011H, M250-BR011H, M245-BR011H, M240-BR011H, M235-BR011H, M235-BR012H, M230-BR012H, M225-BR012H, M220-BR012H, M215-BR012H, M210-BR012H, M205-BR012H, M200-BR012H, M195-BR012H.

M330-BR031F, M325-BR031F, M320-BR031F, M315-BR031F, M310-BR031F, M305-BR031F, M300-BR031F, M295-BR031F, M290-BR031F, M285-BR031F, M280-BR031F, M275-BR031F, M270-BR031F, M275-BR032F, M270-BR032F, M265-BR032F, M260-BR032F, M255-BR032F, M250-BR032F, M245-BR032F, M240-BR032F, M235-BR032F, M230-BR032F, M225-BR032F, M330-BR031H, M325-BR031H, M320-BR031H, M315-BR031H, M310-BR031H, M305-BR031H, M300-BR031H, M295-BR031H, M290-BR031H, M285-BR031H, M280-BR031H, M275-BR031H, M270-BR031H, M275-BR032H, M270-BR032H, M265-BR032H, M260-BR032H, M255-BR032H, M250-BR032H, M245-BR032H, M240-BR032H, M235-BR032H, M230-BR032H, M225-BR032H.

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M320-WD021F, M315-WD021F, M310-WD021F, M305-WD021F, M300-WD021F, M295-WD021F, M290-WD021F, M285-WD021F, M280-WD021F, M275-WD021F, M270-WD021F, M265-WD022F, M260-WD022F, M255-WD022F, M250-WD022F, M245-WD022F, M240-WD022F, M235-WD022F, M230-WD022F, M225-WD022F, M320-WD021H, M315-WD021H, M310-WD021H, M305-WD021H, M300-WD021H, M295-WD021H, M290-WD021H, M285-WD021H, M280-WD021H, M275-WD021H, M270-WD021H, M265-WD022H, M260-WD022H, M255-WD022H, M250-WD022H, M245-WD022H, M240-WD022H, M235-WD022H, M230-WD022H, M225-WD022H.

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WD042F, M195-WD042F, M190-WD042F, M185-WD042F, M275-WD041H, M270-WD041H, M265-WD041H, M260-WD041H, M255-WD041H, M250-WD041H, M245-WD041H, M240-WD041H, M235-WD041H, M230-WD041H, M225-WD041H, M225-WD042H, M220-WD042H, M215-WD042H, M210-WD042H, M205-WD042H, M200-WD042H, M195-WD042H, M190-WD042H, M185-WD042H.

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M305-ML021F, M300-ML021F, M295-ML021F, M290-ML021F, M285-ML021F, M280-ML021F, M275-ML021F, M270-ML021F, M265-ML021F, M260-ML021F, M255-ML021F, M250-ML022F, M245-ML022F, M240-ML022F, M235-ML022F, M230-ML022F, M225-ML022F, M220-ML022F, M215-ML022F, M210-ML022F, M305-ML021H, M300-ML021H, M295-ML021H, M290-ML021H, M285-ML021H, M280-ML021H, M275-ML021H, M270-ML021H, M265-ML021H, M260-ML021H, M255-ML021H, M250-ML022H, M245-ML022H, M240-ML022H, M235-ML022H, M230-ML022H, M225-ML022H, M220-ML022H, M215-ML022H, M210-ML022H.

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2.0 Product Description

M265-GR021F, M260-GR021F, M255-GR021F, M250-GR021F, M245-GR021F, M240-GR021F, M235-GR021F, M230-GR021F, M225-GR021F, M220-GR022F, M215-GR022F, M210-GR022F, M205-GR022F, M200-GR022F, M195-GR022F, M190-GR022F, M185-GR022F, M180-GR022F, M265-GR021H, M260-GR021H, M255-GR021H, M250-GR021H, M245-GR021H, M240-GR021H, M235-GR021H, M230-GR021H, M225-GR021H, M220-GR022H, M215-GR022H, M210-GR022H, M205-GR022H, M200-GR022H, M195-GR022H, M190-GR022H, M185-GR022H, M180-GR022H.

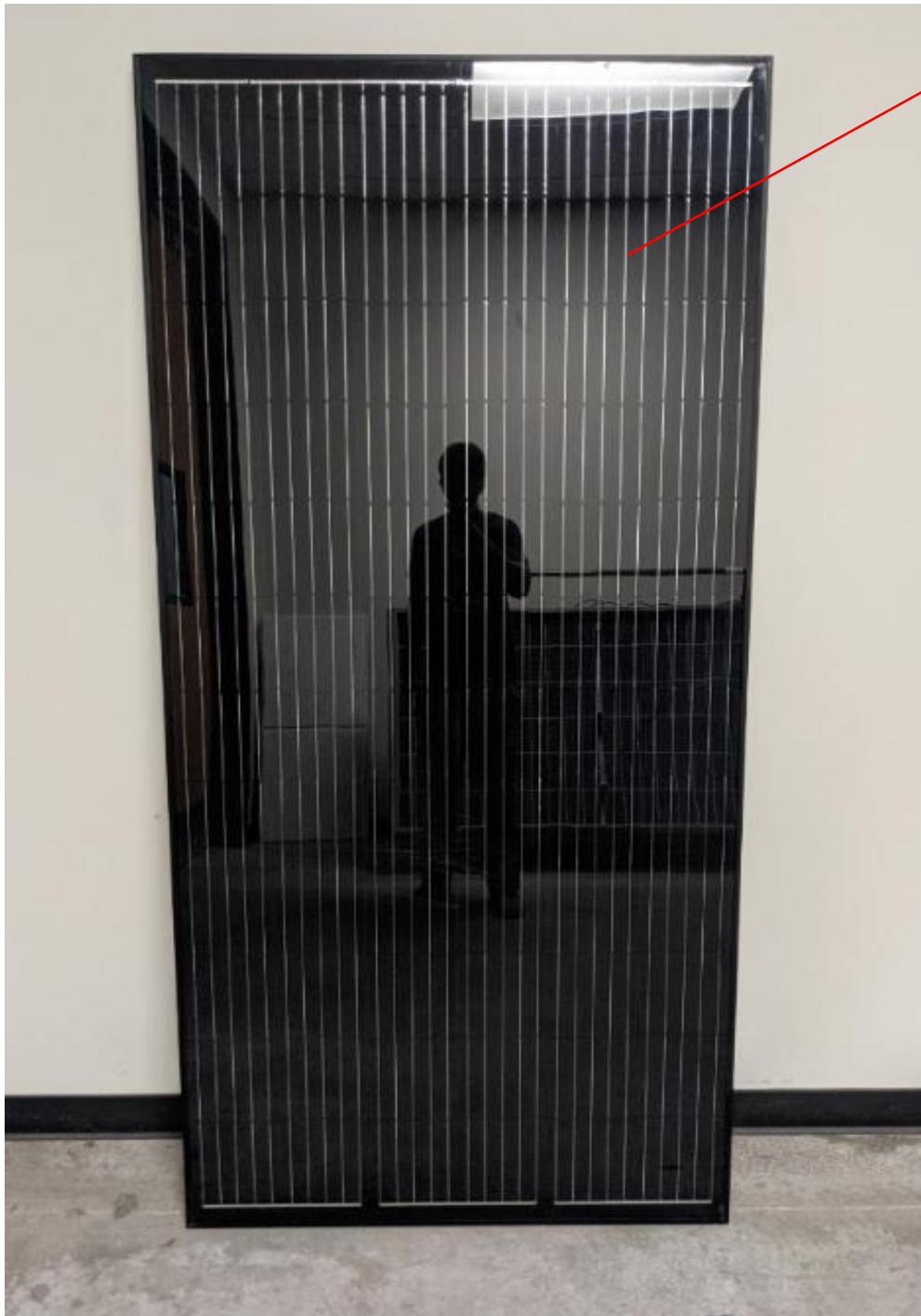
M220-GR031F, M215-GR031F, M210-GR031F, M205-GR031F, M200-GR031F, M195-GR031F, M190-GR031F, M185-GR031F, M180-GR031F, M180-GR032F, M175-GR032F, M170-GR032F, M165-GR032F, M160-GR032F, M155-GR032F, M150-GR032F, M220-GR031H, M215-GR031H, M210-GR031H, M205-GR031H, M200-GR031H, M195-GR031H, M190-GR031H, M185-GR031H, M180-GR031H, M180-GR032H, M175-GR032H, M170-GR032H, M165-GR032H, M160-GR032H, M155-GR032H, M150-GR032H.

M330-GR011F, M325-GR011F, M320-GR011F, M315-GR011F, M310-GR011F, M305-GR011F, M300-GR011F, M295-GR011F, M290-GR011F, M285-GR011F, M280-GR011F, M275-GR011F, M270-GR011F, M275-GR012F, M270-GR012F, M265-GR012F, M260-GR012F, M255-GR012F, M250-GR012F, M245-GR012F, M240-GR012F, M235-GR012F, M230-GR012F, M225-GR012F, M330-GR011H, M325-GR011H, M320-GR011H, M315-GR011H, M310-GR011H, M305-GR011H, M300-GR011H, M295-GR011H, M290-GR011H, M285-GR011H, M280-GR011H, M275-GR011H, M270-GR011H, M275-GR012H, M270-GR012H, M265-GR012H, M260-GR012H, M255-GR012H, M250-GR012H, M245-GR012H, M240-GR012H, M235-GR012H, M230-GR012H, M225-GR012H.

2.0 Product Description	
Model Similarity	<p>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 Mxxx-X#Y where</p> <p>M: Denotes Mitrex xxx: Denotes the power in Watts X: Denotes the color of the backsheet, A for Black and B for White. #: Denotes the size of the module, 1 for 72 cell (2036mm x 996mm) and 2 for 60 cell (1716mm x 996mm) Y: Denotes the type of the cell, F for full cell and H for Half-cut cell</p> <p>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 Mxxx-XXYY#Z where</p> <p>M: Denotes Mitrex xxx: Denotes the power in Watts XXYY: Denotes the pattern of the module, XX for categories (in letters) and YY for variants of that categories. #: Denotes the size of the module, 1 for 72 cells (2036mm x 996mm) and 2 for 60 cells (1716mm x 996mm) Z: Denotes the type of the cell, F for full cell and H for Half-cut cell</p> <p>Categories: GR: Granite; MR: Marble; RF: Roof; SD: Solid; BR: Brick; SL: Slate; WD: Wood; LS: Limestone; ML: Metal; CL: Clear.</p>
Ratings	See illustration from 3a to 3ag

3.0 Product Photographs

Photo 1 - Overall Front



01

3.0 Product Photographs

Photo 6 - Overall front model M300-SL011F



(Panel Spec highlighted in the pdf page 40 (document page 57))

Photo 7 - Overall front model M325-SD051F



(Panel Spec highlighted in the pdf page 34 (document page 51))

3.0 Product Photographs

Photo 8 - Overall front model M300-BR031F



(Panel Spec highlighted in the pdf page 43 (document page 60))

Photo 9 - Overall front model M230-LS021F



(Panel Spec highlighted in the pdf page 51 (document page 68))

3.0 Product Photographs

Photo 10 - Overall front model M250-WD041F



(Panel Spec highlighted in the pdf page 48 (document page 65))

Photo 11 - Overall front model M230-RF051F



(Panel Spec highlighted in the pdf page 39 (document page 56))

3.0 Product Photographs

Photo 12 - Overall front model M205-WD011F



(Panel Spec highlighted in the pdf page 45 (document page 62))

Photo 13 - Overall front model M175-SD011F



(Panel Spec highlighted in the pdf page 33 (document page 50))

3.0 Product Photographs

Photo 14 - Overall front model M270-RF021F



(Panel Spec highlighted in the pdf page 37 (document page 54))

Photo 15 - Overall front model M245-GR021F



(Panel Spec highlighted in the pdf page 53 (document page 70))

3.0 Product Photographs

Photo 16 - Overall front model M200-MR031F



(Panel Spec highlighted in the pdf page 31 (document page 48))

Photo 17 - Overall front model M240-MR051F



(Panel Spec highlighted in the pdf page 32 (document page 49))

3.0 Product Photographs

Photo 18 - Overall front model M355-CL011F



(Panel Spec highlighted in the pdf page 27 (document page 44))

Photo 19 - Overall front model M215-SD061F



(Panel Spec highlighted in the pdf page 35 (document page 52))

3.0 Product Photographs

Photo 20 - Overall front model M265-SD081F



(Panel Spec highlighted in the pdf page 36 (document page 53))

Photo 21 - Overall front model M200-GR031F



(Panel Spec highlighted in the pdf page 54 (document page 71))

3.0 Product Photographs

Photo 22 - Overall front model M280-MR011F



(Panel Spec highlighted in the pdf page 29 (document page 46))

Photo 23 - Overall front model M185-WD031F



(Panel Spec highlighted in the pdf page 47 (document page 64))

3.0 Product Photographs

Photo 24 - Overall front model M240-ML011F



(Panel Spec highlighted in the pdf page 49 (document page 66))

Photo 25 - Overall front model M260-BR011F



(Panel Spec highlighted in the pdf page 42 (document page 59))

3.0 Product Photographs

Photo 26 - Overall front model M330-MR021F



(Panel Spec highlighted in the pdf page 30 (document page 47))

Photo 27 - Overall front model M245-SL021F



(Panel Spec highlighted in the pdf page 41 (document page 58))

3.0 Product Photographs

Photo 28 - Overall front model M280-ML021F



(Panel Spec highlighted in the pdf page 50 (document page 67))

Photo 29 - Overall front model M280-LS031F



(Panel Spec highlighted in the pdf page 52 (document page 69))

3.0 Product Photographs

Photo 30 - Overall front model M295-WD021F



(Panel Spec highlighted in the pdf page 46 (document page 63))

Photo 31 - Overall front model M325-RF041F



(Panel Spec highlighted in the pdf page 38 (document page 55))

3.0 Product Photographs

Photo 32 - Overall front model M210-BR041F



(Panel Spec highlighted in the pdf page 44 (document page 61))

7.0 Illustrations

Illustration 3a - Electrical Ratings [Mxxx-A1F, Mxxx-B1F]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating [A]
M400-A1F	400	9.46	42.3	9.87	48.3	1000	20
M395-A1F	395	9.38	42.1	9.81	48.3	1000	20
M390-A1F	390	9.31	41.9	9.77	48.2	1000	20
M385-A1F	385	9.23	41.7	9.71	48.2	1000	20
M380-A1F	380	9.18	41.4	9.64	48.1	1000	20
M375-A1F	375	9.12	41.1	9.57	48.1	1000	20
M370-A1F	370	9.07	40.8	9.51	48.0	1000	20
M400-B1F	400	9.46	42.3	9.87	48.3	1000	20
M395-B1F	395	9.38	42.1	9.81	48.3	1000	20
M390-B1F	390	9.31	41.9	9.77	48.2	1000	20
M385-B1F	385	9.23	41.7	9.71	48.2	1000	20
M380-B1F	380	9.18	41.4	9.64	48.1	1000	20
M375-B1F	375	9.12	41.1	9.57	48.1	1000	20
M370-B1F	370	9.07	40.8	9.51	48.0	1000	20

7.0 Illustrations

Illustration 3e - Electrical Ratings [Mxxx-CL011F, Mxxx-CL012F]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M390-CL011F	390	9.63	40.5	10.22	49.0	1000	20
M385-CL011F	385	9.51	40.5	10.09	49.0	1000	20
M380-CL011F	380	9.41	40.4	9.95	48.9	1000	20
M375-CL011F	375	9.28	40.4	9.82	48.9	1000	20
M370-CL011F	370	9.18	40.3	9.69	48.8	1000	20
M365-CL011F	365	9.06	40.3	9.56	48.8	1000	20
M360-CL011F	360	8.96	40.2	9.43	48.7	1000	20
M355-CL011F	355	8.83	40.2	9.3	48.7	1000	20
M350-CL011F	350	8.73	40.1	9.17	48.6	1000	20
M345-CL011F	345	8.60	40.1	9.04	48.6	1000	20
M340-CL011F	340	8.50	40.0	8.91	48.5	1000	20
M335-CL011F	335	8.38	40.0	8.78	48.5	1000	20
M330-CL011F	330	8.27	39.9	8.65	48.4	1000	20
M325-CL011F	325	8.15	39.9	8.51	48.4	1000	20
M320-CL011F	320	8.02	39.9	8.38	48.3	1000	20
M320-CL012F	320	9.52	33.6	10.09	40.9	1000	20
M315-CL012F	315	9.38	33.6	9.93	40.8	1000	20
M310-CL012F	310	9.25	33.5	9.77	40.8	1000	20
M305-CL012F	305	9.10	33.5	9.62	40.7	1000	20
M300-CL012F	300	8.98	33.4	9.46	40.7	1000	20
M295-CL012F	295	8.83	33.4	9.30	40.6	1000	20
M290-CL012F	290	8.71	33.3	9.14	40.6	1000	20
M285-CL012F	285	8.56	33.3	8.98	40.5	1000	20
M280-CL012F	280	8.43	33.2	8.83	40.5	1000	20
M275-CL012F	275	8.28	33.2	8.67	40.4	1000	20
M270-CL012F	270	8.16	33.1	8.51	40.4	1000	20

7.0 Illustrations

Illustration 3f - Electrical Ratings [Mxxx-CL011H, Mxxx-CL012H]

Model Name	Pmax [W]	I _{max} [A]	V _{max} [V]	I _{sc} [A]	V _{oc} [V]	MSV [V]	Fuse Rating
M390-CL011H	390	9.63	40.5	10.22	49.0	1000	20
M385-CL011H	385	9.51	40.5	10.09	49.0	1000	20
M380-CL011H	380	9.41	40.4	9.95	48.9	1000	20
M375-CL011H	375	9.28	40.4	9.82	48.9	1000	20
M370-CL011H	370	9.18	40.3	9.69	48.8	1000	20
M365-CL011H	365	9.06	40.3	9.56	48.8	1000	20
M360-CL011H	360	8.96	40.2	9.43	48.7	1000	20
M355-CL011H	355	8.83	40.2	9.30	48.7	1000	20
M350-CL011H	350	8.73	40.1	9.17	48.6	1000	20
M345-CL011H	345	8.60	40.1	9.04	48.6	1000	20
M340-CL011H	340	8.50	40.0	8.91	48.5	1000	20
M335-CL011H	335	8.38	40.0	8.78	48.5	1000	20
M330-CL011H	330	8.27	39.9	8.65	48.4	1000	20
M325-CL011H	325	8.15	39.9	8.51	48.4	1000	20
M320-CL011H	320	8.02	39.9	8.38	48.3	1000	20
M320-CL012H	320	9.52	33.6	10.09	40.9	1000	20
M315-CL012H	315	9.38	33.6	9.93	40.8	1000	20
M310-CL012H	310	9.25	33.5	9.77	40.8	1000	20
M305-CL012H	305	9.10	33.5	9.62	40.7	1000	20
M300-CL012H	300	8.98	33.4	9.46	40.7	1000	20
M295-CL012H	295	8.83	33.4	9.30	40.6	1000	20
M290-CL012H	290	8.71	33.3	9.14	40.6	1000	20
M285-CL012H	285	8.56	33.3	8.98	40.5	1000	20
M280-CL012H	280	8.43	33.2	8.83	40.5	1000	20
M275-CL012H	275	8.28	33.2	8.67	40.4	1000	20
M270-CL012H	270	8.16	33.1	8.51	40.4	1000	20

7.0 Illustrations

Illustration 3g - Electrical Ratings [Mxxx-MR011F, Mxxx-MR012F, Mxxx-MR011H, Mxxx-MR012H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M305-MR011H	305	7.11	42.9	7.89	48.7	1000	20
M300-MR011H	300	6.99	42.9	7.76	48.7	1000	20
M295-MR011H	295	6.89	42.8	7.63	48.6	1000	20
M290-MR011H	290	6.78	42.8	7.50	48.6	1000	20
M285-MR011H	285	6.67	42.7	7.37	48.5	1000	20
M280-MR011H	280	6.56	42.7	7.24	48.5	1000	20
M275-MR011H	275	6.46	42.6	7.11	48.4	1000	20
M270-MR011H	270	6.34	42.6	6.98	48.4	1000	20
M265-MR011H	265	6.24	42.5	6.85	48.3	1000	20
M260-MR011H	260	6.12	42.5	6.72	48.3	1000	20
M255-MR011H	255	6.01	42.4	6.59	48.2	1000	20
M250-MR012H	250	7.08	35.3	7.87	40.6	1000	20
M245-MR012H	245	6.96	35.2	7.71	40.6	1000	20
M240-MR012H	240	6.82	35.2	7.55	40.5	1000	20
M235-MR012H	235	6.70	35.1	7.40	40.5	1000	20
M230-MR012H	230	6.56	35.1	7.24	40.4	1000	20
M225-MR012H	225	6.43	35.0	7.08	40.4	1000	20
M220-MR012H	220	6.29	35.0	6.93	40.3	1000	20
M215-MR012H	215	6.16	34.9	6.77	40.3	1000	20
M210-MR012H	210	6.02	34.9	6.61	40.2	1000	20
M305-MR011F	305	7.11	42.9	7.89	48.7	1000	20
M300-MR011F	300	6.99	42.9	7.76	48.7	1000	20
M295-MR011F	295	6.89	42.8	7.63	48.6	1000	20
M290-MR011F	290	6.78	42.8	7.50	48.6	1000	20
M285-MR011F	285	6.67	42.7	7.37	48.5	1000	20
M280-MR011F	280	6.56	42.7	7.24	48.5	1000	20
M275-MR011F	275	6.46	42.6	7.11	48.4	1000	20
M270-MR011F	270	6.34	42.6	6.98	48.4	1000	20
M265-MR011F	265	6.24	42.5	6.85	48.3	1000	20
M260-MR011F	260	6.12	42.5	6.72	48.3	1000	20
M255-MR011F	255	6.01	42.4	6.59	48.2	1000	20
M250-MR012F	250	7.08	35.3	7.87	40.6	1000	20
M245-MR012F	245	6.96	35.2	7.71	40.6	1000	20
M240-MR012F	240	6.82	35.2	7.55	40.5	1000	20
M235-MR012F	235	6.70	35.1	7.40	40.5	1000	20
M230-MR012F	230	6.56	35.1	7.24	40.4	1000	20
M225-MR012F	225	6.43	35.0	7.08	40.4	1000	20
M220-MR012F	220	6.29	35.0	6.93	40.3	1000	20
M215-MR012F	215	6.16	34.9	6.77	40.3	1000	20
M210-MR012F	210	6.02	34.9	6.61	40.2	1000	20

7.0 Illustrations

Illustration 3h - Electrical Ratings [Mxxx-MR021F, Mxxx-MR022F, Mxxx-MR021H, Mxxx-MR022H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating	Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M360-MR021F	360	8.72	41.3	9.24	49.0	1000	20	M360-MR021H	360	8.72	41.3	9.24	49.0	1000	20
M355-MR021F	355	8.62	41.2	9.11	48.9	1000	20	M355-MR021H	355	8.62	41.2	9.11	48.9	1000	20
M350-MR021F	350	8.50	41.2	8.98	48.9	1000	20	M350-MR021H	350	8.50	41.2	8.98	48.9	1000	20
M345-MR021F	345	8.39	41.1	8.86	48.8	1000	20	M345-MR021H	345	8.39	41.1	8.86	48.8	1000	20
M340-MR021F	340	8.27	41.1	8.73	48.8	1000	20	M340-MR021H	340	8.27	41.1	8.73	48.8	1000	20
M335-MR021F	335	8.17	41.0	8.60	48.7	1000	20	M335-MR021H	335	8.17	41.0	8.60	48.7	1000	20
M330-MR021F	330	8.05	41	8.47	48.7	1000	20	M330-MR021H	330	8.05	41.0	8.47	48.7	1000	20
M325-MR021F	325	7.95	40.9	8.34	48.6	1000	20	M325-MR021H	325	7.95	40.9	8.34	48.6	1000	20
M320-MR021F	320	7.82	40.9	8.21	48.6	1000	20	M320-MR021H	320	7.82	40.9	8.21	48.6	1000	20
M315-MR021F	315	7.72	40.8	8.09	48.5	1000	20	M315-MR021H	315	7.72	40.8	8.09	48.5	1000	20
M310-MR021F	310	7.60	40.8	7.96	48.5	1000	20	M310-MR021H	310	7.60	40.8	7.96	48.5	1000	20
M305-MR021F	305	7.49	40.7	7.83	48.4	1000	20	M305-MR021H	305	7.49	40.7	7.83	48.4	1000	20
M300-MR021F	300	7.37	40.7	7.70	48.4	1000	20	M300-MR021H	300	7.37	40.7	7.70	48.4	1000	20
M300-MR022F	300	8.72	34.4	9.24	40.9	1000	20	M300-MR022H	300	8.72	34.4	9.24	40.9	1000	20
M295-MR022F	295	8.58	34.4	9.09	40.8	1000	20	M295-MR022H	295	8.58	34.4	9.09	40.8	1000	20
M290-MR022F	290	8.45	34.3	8.93	40.8	1000	20	M290-MR022H	290	8.45	34.3	8.93	40.8	1000	20
M285-MR022F	285	8.31	34.3	8.78	40.7	1000	20	M285-MR022H	285	8.31	34.3	8.78	40.7	1000	20
M280-MR022F	280	8.19	34.2	8.62	40.7	1000	20	M280-MR022H	280	8.19	34.2	8.62	40.7	1000	20
M275-MR022F	275	8.05	34.2	8.47	40.6	1000	20	M275-MR022H	275	8.05	34.2	8.47	40.6	1000	20
M270-MR022F	270	7.92	34.1	8.32	40.6	1000	20	M270-MR022H	270	7.92	34.1	8.32	40.6	1000	20
M265-MR022F	265	7.77	34.1	8.16	40.5	1000	20	M265-MR022H	265	7.77	34.1	8.16	40.5	1000	20
M260-MR022F	260	7.65	34.0	8.01	40.5	1000	20	M260-MR022H	260	7.65	34.0	8.01	40.5	1000	20
M255-MR022F	255	7.50	34.0	7.85	40.4	1000	20	M255-MR022H	255	7.50	34.0	7.85	40.4	1000	20
M250-MR022F	250	7.37	33.9	7.70	40.4	1000	20	M250-MR022H	250	7.37	33.9	7.70	40.4	1000	20

7.0 Illustrations

Illustration 3i - Electrical Ratings [Mxxx-MR031F, Mxxx-MR032F, Mxxx-MR031H, Mxxx-MR032H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating	Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M220-MR031F	220	5.23	42.1	5.76	48.2	1000	20	M220-MR031H	220	5.23	42.1	5.76	48.2	1000	20
M215-MR031F	215	5.12	42.0	5.63	48.1	1000	20	M215-MR031H	215	5.12	42.0	5.63	48.1	1000	20
M210-MR031F	210	5.00	42.0	5.50	48.1	1000	20	M210-MR031H	210	5.00	42.0	5.50	48.1	1000	20
M205-MR031F	205	4.89	41.9	5.37	48.0	1000	20	M205-MR031H	205	4.89	41.9	5.37	48.0	1000	20
M200-MR031F	200	4.78	41.9	5.24	48.0	1000	20	M200-MR031H	200	4.78	41.9	5.24	48.0	1000	20
M195-MR031F	195	4.67	41.8	5.11	47.9	1000	20	M195-MR031H	195	4.67	41.8	5.11	47.9	1000	20
M190-MR031F	190	4.55	41.8	4.98	47.9	1000	20	M190-MR031H	190	4.55	41.8	4.98	47.9	1000	20
M185-MR031F	185	4.44	41.7	4.85	47.8	1000	20	M185-MR031H	185	4.44	41.7	4.85	47.8	1000	20
M180-MR031F	180	4.32	41.7	4.72	47.8	1000	20	M180-MR031H	180	4.32	41.7	4.72	47.8	1000	20
M180-MR032F	180	5.20	34.6	5.72	40.2	1000	20	M180-MR032H	180	5.20	34.6	5.72	40.2	1000	20
M175-MR032F	175	5.06	34.6	5.56	40.1	1000	20	M175-MR032H	175	5.06	34.6	5.56	40.1	1000	20
M170-MR032F	170	4.93	34.5	5.40	40.1	1000	20	M170-MR032H	170	4.93	34.5	5.40	40.1	1000	20
M165-MR032F	165	4.78	34.5	5.24	40.0	1000	20	M165-MR032H	165	4.78	34.5	5.24	40.0	1000	20
M160-MR032F	160	4.65	34.4	5.08	40.0	1000	20	M160-MR032H	160	4.65	34.4	5.08	40.0	1000	20
M155-MR032F	155	4.51	34.4	4.92	39.9	1000	20	M155-MR032H	155	4.51	34.4	4.92	39.9	1000	20
M150-MR032F	150	4.37	34.3	4.76	39.9	1000	20	M150-MR032H	150	4.37	34.3	4.76	39.9	1000	20

7.0 Illustrations

Illustration 3j - Electrical Ratings [Mxxx-MR051F, Mxxx-MR052F, Mxxx-MR051H, Mxxx-MR052H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M260-MR051F	260	6.19	42.0	6.68	48.5	1000	20
M255-MR051F	255	6.09	41.9	6.56	48.4	1000	20
M250-MR051F	250	5.97	41.9	6.43	48.4	1000	20
M245-MR051F	245	5.86	41.8	6.30	48.3	1000	20
M240-MR051F	240	5.74	41.8	6.17	48.3	1000	20
M235-MR051F	235	5.64	41.7	6.04	48.2	1000	20
M230-MR051F	230	5.52	41.7	5.91	48.2	1000	20
M225-MR051F	225	5.41	41.6	5.78	48.1	1000	20
M220-MR051F	220	5.29	41.6	5.66	48.1	1000	20
M220-MR052F	220	6.29	35.0	6.79	40.5	1000	20
M215-MR052F	215	6.16	34.9	6.63	40.5	1000	20
M210-MR052F	210	6.02	34.9	6.48	40.4	1000	20
M205-MR052F	205	5.89	34.8	6.32	40.4	1000	20
M200-MR052F	200	5.74	34.8	6.17	40.3	1000	20
M195-MR052F	195	5.62	34.7	6.02	40.3	1000	20
M190-MR052F	190	5.48	34.7	5.86	40.2	1000	20
M185-MR052F	185	5.35	34.6	5.71	40.2	1000	20
M180-MR052F	180	5.20	34.6	5.55	40.1	1000	20

7.0 Illustrations

Illustration 3k - Electrical Ratings [Mxxx-SD011F, Mxxx-SD012F, Mxxx-SD011H, Mxxx-SD012H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M190-SD011F	190	4.62	41.1	4.96	47.7	1000	20
M185-SD011F	185	4.50	41.1	4.83	47.7	1000	20
M180-SD011F	180	4.39	41.0	4.70	47.6	1000	20
M175-SD011F	175	4.26	41	4.57	47.6	1000	20
M170-SD011F	170	4.16	40.9	4.44	47.5	1000	20
M165-SD011F	165	4.03	40.9	4.31	47.5	1000	20
M160-SD011F	160	3.92	40.8	4.18	47.4	1000	20
M155-SD012F	155	4.55	34.1	4.89	39.8	1000	20
M150-SD012F	150	4.41	34.0	4.73	39.8	1000	20
M145-SD012F	145	4.26	34.0	4.57	39.7	1000	20
M140-SD012F	140	4.13	33.9	4.41	39.7	1000	20
M135-SD012F	135	3.98	33.9	4.25	39.6	1000	20
M190-SD011H	190	4.62	41.1	4.96	47.7	1000	20
M185-SD011H	185	4.50	41.1	4.83	47.7	1000	20
M180-SD011H	180	4.39	41.0	4.70	47.6	1000	20
M175-SD011H	175	4.26	41.0	4.57	47.6	1000	20
M170-SD011H	170	4.16	40.9	4.44	47.5	1000	20
M165-SD011H	165	4.03	40.9	4.31	47.5	1000	20
M160-SD011H	160	3.92	40.8	4.18	47.4	1000	20
M155-SD012H	155	4.55	34.1	4.89	39.8	1000	20
M150-SD012H	150	4.41	34.0	4.73	39.8	1000	20
M145-SD012H	145	4.26	34.0	4.57	39.7	1000	20
M140-SD012H	140	4.13	33.9	4.41	39.7	1000	20
M135-SD012H	135	3.98	33.9	4.25	39.6	1000	20

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Illustration 3I - Electrical Ratings [Mxxx-SD051F, Mxxx-SD052F, Mxxx-SD051H, Mxxx-SD052H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating	Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M355-SD051F	355	8.72	40.7	9.20	49.0	1000	20	M355-SD051H	355	8.72	40.7	9.20	49.0	1000	20
M350-SD051F	350	8.62	40.6	9.07	48.9	1000	20	M350-SD051H	350	8.62	40.6	9.07	48.9	1000	20
M345-SD051F	345	8.50	40.6	8.94	48.9	1000	20	M345-SD051H	345	8.50	40.6	8.94	48.9	1000	20
M340-SD051F	340	8.40	40.5	8.81	48.8	1000	20	M340-SD051H	340	8.40	40.5	8.81	48.8	1000	20
M335-SD051F	335	8.27	40.5	8.68	48.8	1000	20	M335-SD051H	335	8.27	40.5	8.68	48.8	1000	20
M330-SD051F	330	8.17	40.4	8.55	48.7	1000	20	M330-SD051H	330	8.17	40.4	8.55	48.7	1000	20
M325-SD051F	325	8.04	40.4	8.42	48.7	1000	20	M325-SD051H	325	8.04	40.4	8.42	48.7	1000	20
M320-SD051F	320	7.94	40.3	8.29	48.6	1000	20	M320-SD051H	320	7.94	40.3	8.29	48.6	1000	20
M315-SD051F	315	7.82	40.3	8.16	48.6	1000	20	M315-SD051H	315	7.82	40.3	8.16	48.6	1000	20
M310-SD051F	310	7.71	40.2	8.03	48.5	1000	20	M310-SD051H	310	7.71	40.2	8.03	48.5	1000	20
M305-SD051F	305	7.59	40.2	7.90	48.5	1000	20	M305-SD051H	305	7.59	40.2	7.90	48.5	1000	20
M300-SD051F	300	7.48	40.1	7.77	48.4	1000	20	M300-SD051H	300	7.48	40.1	7.77	48.4	1000	20
M295-SD051F	295	7.36	40.1	7.64	48.4	1000	20	M295-SD051H	295	7.36	40.1	7.64	48.4	1000	20
M295-SD052F	295	8.73	33.8	9.20	40.9	1000	20	M295-SD052H	295	8.73	33.8	9.20	40.9	1000	20
M290-SD052F	290	8.58	33.8	9.04	40.8	1000	20	M290-SD052H	290	8.58	33.8	9.04	40.8	1000	20
M285-SD052F	285	8.46	33.7	8.89	40.8	1000	20	M285-SD052H	285	8.46	33.7	8.89	40.8	1000	20
M280-SD052F	280	8.31	33.7	8.73	40.7	1000	20	M280-SD052H	280	8.31	33.7	8.73	40.7	1000	20
M275-SD052F	275	8.18	33.6	8.58	40.7	1000	20	M275-SD052H	275	8.18	33.6	8.58	40.7	1000	20
M270-SD052F	270	8.04	33.6	8.42	40.6	1000	20	M270-SD052H	270	8.04	33.6	8.42	40.6	1000	20
M265-SD052F	265	7.91	33.5	8.26	40.6	1000	20	M265-SD052H	265	7.91	33.5	8.26	40.6	1000	20
M260-SD052F	260	7.76	33.5	8.11	40.5	1000	20	M260-SD052H	260	7.76	33.5	8.11	40.5	1000	20
M255-SD052F	255	7.63	33.4	7.95	40.5	1000	20	M255-SD052H	255	7.63	33.4	7.95	40.5	1000	20
M250-SD052F	250	7.49	33.4	7.80	40.4	1000	20	M250-SD052H	250	7.49	33.4	7.80	40.4	1000	20
M245-SD052F	245	7.36	33.3	7.64	40.4	1000	20	M245-SD052H	245	7.36	33.3	7.64	40.4	1000	20

7.0 Illustrations

Illustration 3m - Electrical Ratings [Mxxx-SD061F, Mxxx-SD062F, Mxxx-SD061H, Mxxx-SD062H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M235-SD061F	235	5.77	40.7	6.10	48.2	1000	20
M230-SD061F	230	5.67	40.6	5.97	48.1	1000	20
M225-SD061F	225	5.54	40.6	5.84	48.1	1000	20
M220-SD061F	220	5.43	40.5	5.71	48.0	1000	20
M215-SD061F	215	5.32	40.5	5.58	48.0	1000	20
M210-SD061F	210	5.20	40.4	5.45	47.9	1000	20
M205-SD061F	205	5.07	40.4	5.32	47.9	1000	20
M200-SD061F	200	4.96	40.3	5.19	47.8	1000	20
M195-SD061F	195	4.84	40.3	5.06	47.8	1000	20
M190-SD062F	190	5.76	33.0	6.06	40.2	1000	20
M185-SD062F	185	5.61	33.0	5.90	40.1	1000	20
M180-SD062F	180	5.47	32.9	5.74	40.1	1000	20
M175-SD062F	175	5.32	32.9	5.58	40.0	1000	20
M170-SD062F	170	5.18	32.8	5.42	40.0	1000	20
M165-SD062F	165	5.03	32.8	5.26	39.9	1000	20
M160-SD062F	160	4.89	32.7	5.10	39.9	1000	20

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Illustration 3n - Electrical Ratings [Mxxx-SD081F, Mxxx-SD082F, Mxxx-SD081H, Mxxx-SD082H]

Model Name	Pmax [W]	I _{max} [A]	V _{max} [V]	I _{sc} [A]	Voc [V]	MSV [V]	Fuse Rating
M290-SD081H	290	7.13	40.7	7.49	48.6	1000	20
M285-SD081H	285	7.00	40.7	7.36	48.6	1000	20
M280-SD081H	280	6.90	40.6	7.23	48.5	1000	20
M275-SD081H	275	6.77	40.6	7.10	48.5	1000	20
M270-SD081H	270	6.67	40.5	6.97	48.4	1000	20
M265-SD081H	265	6.55	40.5	6.84	48.4	1000	20
M260-SD081H	260	6.44	40.4	6.71	48.3	1000	20
M255-SD081H	255	6.31	40.4	6.58	48.3	1000	20
M250-SD081H	250	6.20	40.3	6.45	48.2	1000	20
M245-SD081H	245	6.08	40.3	6.32	48.2	1000	20
M240-SD081H	240	5.97	40.2	6.19	48.1	1000	20
M240-SD082H	240	7.10	33.8	7.46	40.5	1000	20
M235-SD082H	235	6.97	33.7	7.31	40.5	1000	20
M230-SD082H	230	6.82	33.7	7.15	40.4	1000	20
M225-SD082H	225	6.70	33.6	7.00	40.4	1000	20
M220-SD082H	220	6.55	33.6	6.84	40.3	1000	20
M215-SD082H	215	6.42	33.5	6.68	40.3	1000	20
M210-SD082H	210	6.27	33.5	6.53	40.2	1000	20
M205-SD082H	205	6.14	33.4	6.37	40.2	1000	20
M200-SD082H	200	5.99	33.4	6.22	40.1	1000	20

7.0 Illustrations

Illustration 3o - Electrical Ratings [Mxxx-RF021F, Mxxx-RF022F, Mxxx-RF021H, Mxxx-RF022H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M295-RF021F	295	7.20	41.0	7.68	48.7	1000	20
M290-RF021F	290	7.07	41.0	7.55	48.7	1000	20
M285-RF021F	285	6.97	40.9	7.42	48.6	1000	20
M280-RF021F	280	6.85	40.9	7.29	48.6	1000	20
M275-RF021F	275	6.74	40.8	7.16	48.5	1000	20
M270-RF021F	270	6.61	40.8	7.03	48.5	1000	20
M265-RF021F	265	6.51	40.7	6.90	48.4	1000	20
M260-RF021F	260	6.39	40.7	6.77	48.4	1000	20
M255-RF021F	255	6.28	40.6	6.64	48.3	1000	20
M250-RF021F	250	6.16	40.6	6.51	48.3	1000	20
M245-RF021F	245	6.05	40.5	6.38	48.2	1000	20
M245-RF022F	245	7.16	34.2	7.65	40.6	1000	20
M240-RF022F	240	7.04	34.1	7.50	40.6	1000	20
M235-RF022F	235	6.89	34.1	7.34	40.5	1000	20
M230-RF022F	230	6.76	34.0	7.19	40.5	1000	20
M225-RF022F	225	6.61	34.0	7.03	40.4	1000	20
M220-RF022F	220	6.49	33.9	6.87	40.4	1000	20
M215-RF022F	215	6.34	33.9	6.72	40.3	1000	20
M210-RF022F	210	6.21	33.8	6.56	40.3	1000	20
M205-RF022F	205	6.07	33.8	6.41	40.2	1000	20

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Illustration 3p - Electrical Ratings [Mxxx-RF041F, Mxxx-RF042F, Mxxx-RF041H, Mxxx-RF042H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M355-RF041F	355	8.64	41.1	9.20	49.0	1000	20
M350-RF041F	350	8.54	41.0	9.07	48.9	1000	20
M345-RF041F	345	8.41	41.0	8.94	48.9	1000	20
M340-RF041F	340	8.31	40.9	8.81	48.8	1000	20
M335-RF041F	335	8.19	40.9	8.68	48.8	1000	20
M330-RF041F	330	8.09	40.8	8.55	48.7	1000	20
M325-RF041F	325	7.98	40.8	8.42	48.7	1000	20
M320-RF041F	320	7.86	40.7	8.29	48.6	1000	20
M315-RF041F	315	7.74	40.7	8.16	48.6	1000	20
M310-RF041F	310	7.64	40.6	8.03	48.5	1000	20
M305-RF041F	305	7.51	40.6	7.90	48.5	1000	20
M300-RF041F	300	7.41	40.5	7.77	48.4	1000	20
M295-RF041F	295	7.28	40.5	7.64	48.4	1000	20
M295-RF042F	295	8.68	34.0	9.20	40.9	1000	20
M290-RF042F	290	8.53	34.0	9.04	40.8	1000	20
M285-RF042F	285	8.41	33.9	8.89	40.8	1000	20
M280-RF042F	280	8.26	33.9	8.73	40.7	1000	20
M275-RF042F	275	8.14	33.8	8.58	40.7	1000	20
M270-RF042F	270	7.98	33.8	8.42	40.6	1000	20
M265-RF042F	265	7.86	33.7	8.26	40.6	1000	20
M260-RF042F	260	7.72	33.7	8.11	40.5	1000	20
M255-RF042F	255	7.59	33.6	7.95	40.5	1000	20
M250-RF042F	250	7.44	33.6	7.80	40.4	1000	20
M245-RF042F	245	7.31	33.5	7.64	40.4	1000	20

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Illustration 3q - Electrical Ratings [Mxxx-RF051F, Mxxx-RF052F, Mxxx-RF051H, Mxxx-RF052H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating	Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M250-RF051F	250	5.80	43.1	6.45	48.5	1000	20	M250-RF051H	250	5.80	43.1	6.45	48.5	1000	20
M245-RF051F	245	5.70	43.0	6.32	48.4	1000	20	M245-RF051H	245	5.70	43.0	6.32	48.4	1000	20
M240-RF051F	240	5.58	43.0	6.19	48.4	1000	20	M240-RF051H	240	5.58	43.0	6.19	48.4	1000	20
M235-RF051F	235	5.48	42.9	6.06	48.3	1000	20	M235-RF051H	235	5.48	42.9	6.06	48.3	1000	20
M230-RF051F	230	5.36	42.9	5.93	48.3	1000	20	M230-RF051H	230	5.36	42.9	5.93	48.3	1000	20
M225-RF051F	225	5.26	42.8	5.80	48.2	1000	20	M225-RF051H	225	5.26	42.8	5.80	48.2	1000	20
M220-RF051F	220	5.14	42.8	5.67	48.2	1000	20	M220-RF051H	220	5.14	42.8	5.67	48.2	1000	20
M215-RF051F	215	5.04	42.7	5.54	48.1	1000	20	M215-RF051H	215	5.04	42.7	5.54	48.1	1000	20
M210-RF051F	210	4.92	42.7	5.41	48.1	1000	20	M210-RF051H	210	4.92	42.7	5.41	48.1	1000	20
M205-RF052F	205	5.77	35.5	6.40	40.5	1000	20	M205-RF052H	205	5.77	35.5	6.40	40.5	1000	20
M200-RF052F	200	5.63	35.5	6.24	40.4	1000	20	M200-RF052H	200	5.63	35.5	6.24	40.4	1000	20
M195-RF052F	195	5.51	35.4	6.09	40.4	1000	20	M195-RF052H	195	5.51	35.4	6.09	40.4	1000	20
M190-RF052F	190	5.36	35.4	5.93	40.3	1000	20	M190-RF052H	190	5.36	35.4	5.93	40.3	1000	20
M185-RF052F	185	5.24	35.3	5.77	40.3	1000	20	M185-RF052H	185	5.24	35.3	5.77	40.3	1000	20
M180-RF052F	180	5.10	35.3	5.62	40.2	1000	20	M180-RF052H	180	5.10	35.3	5.62	40.2	1000	20
M175-RF052F	175	4.97	35.2	5.46	40.2	1000	20	M175-RF052H	175	4.97	35.2	5.46	40.2	1000	20

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Illustration 3r - Electrical Ratings [Mxxx-SL011F, Mxxx-SL012F, Mxxx-SL011H, Mxxx-SL012H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M330-SL011H	330	8.15	40.5	8.67	48.8	1000	20
M325-SL011H	325	8.04	40.4	8.54	48.7	1000	20
M320-SL011H	320	7.92	40.4	8.41	48.7	1000	20
M315-SL011H	315	7.82	40.3	8.27	48.6	1000	20
M310-SL011H	310	7.69	40.3	8.14	48.6	1000	20
M305-SL011H	305	7.59	40.2	8.01	48.5	1000	20
M300-SL011H	300	7.47	40.2	7.88	48.5	1000	20
M295-SL011H	295	7.36	40.1	7.75	48.4	1000	20
M290-SL011H	290	7.23	40.1	7.62	48.4	1000	20
M285-SL011H	285	7.13	40.0	7.49	48.3	1000	20
M280-SL011H	280	7.00	40.0	7.35	48.3	1000	20
M275-SL011H	275	6.89	39.9	7.22	48.2	1000	20
M270-SL011H	270	6.77	39.9	7.09	48.2	1000	20
M275-SL012H	275	8.16	33.7	8.67	40.7	1000	20
M270-SL012H	270	8.01	33.7	8.51	40.6	1000	20
M265-SL012H	265	7.89	33.6	8.35	40.6	1000	20
M260-SL012H	260	7.74	33.6	8.20	40.5	1000	20
M255-SL012H	255	7.61	33.5	8.04	40.5	1000	20
M250-SL012H	250	7.47	33.5	7.88	40.4	1000	20
M245-SL012H	245	7.34	33.4	7.72	40.4	1000	20
M240-SL012H	240	7.19	33.4	7.56	40.3	1000	20
M235-SL012H	235	7.06	33.3	7.41	40.3	1000	20
M230-SL012H	230	6.91	33.3	7.25	40.2	1000	20
M225-SL012H	225	6.78	33.2	7.09	40.2	1000	20
M330-SL011F	330	8.15	40.5	8.67	48.8	1000	20
M325-SL011F	325	8.04	40.4	8.54	48.7	1000	20
M320-SL011F	320	7.92	40.4	8.41	48.7	1000	20
M315-SL011F	315	7.82	40.3	8.27	48.6	1000	20
M310-SL011F	310	7.69	40.3	8.14	48.6	1000	20
M305-SL011F	305	7.59	40.2	8.01	48.5	1000	20
M300-SL011F	300	7.47	40.2	7.88	48.5	1000	20
M295-SL011F	295	7.36	40.1	7.75	48.4	1000	20
M290-SL011F	290	7.23	40.1	7.62	48.4	1000	20
M285-SL011F	285	7.13	40.0	7.49	48.3	1000	20
M280-SL011F	280	7.00	40.0	7.35	48.3	1000	20
M275-SL011F	275	6.89	39.9	7.22	48.2	1000	20
M270-SL011F	270	6.77	39.9	7.09	48.2	1000	20
M275-SL012F	275	8.16	33.7	8.67	40.7	1000	20
M270-SL012F	270	8.01	33.7	8.51	40.6	1000	20
M265-SL012F	265	7.89	33.6	8.35	40.6	1000	20
M260-SL012F	260	7.74	33.6	8.20	40.5	1000	20
M255-SL012F	255	7.61	33.5	8.04	40.5	1000	20
M250-SL012F	250	7.47	33.5	7.88	40.4	1000	20
M245-SL012F	245	7.34	33.4	7.72	40.4	1000	20
M240-SL012F	240	7.19	33.4	7.56	40.3	1000	20
M235-SL012F	235	7.06	33.3	7.41	40.3	1000	20
M230-SL012F	230	6.91	33.3	7.25	40.2	1000	20
M225-SL012F	225	6.78	33.2	7.09	40.2	1000	20

7.0 Illustrations

Illustration 3s - Electrical Ratings [Mxxx-SL021F, Mxxx-SL022F, Mxxx-SL021H, Mxxx-SL022H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M265-SL021F	265	6.37	41.6	6.83	48.4	1000	20
M260-SL021F	260	6.27	41.5	6.70	48.3	1000	20
M255-SL021F	255	6.14	41.5	6.57	48.3	1000	20
M250-SL021F	250	6.04	41.4	6.44	48.2	1000	20
M245-SL021F	245	5.92	41.4	6.31	48.2	1000	20
M240-SL021F	240	5.81	41.3	6.18	48.1	1000	20
M235-SL021F	235	5.69	41.3	6.05	48.1	1000	20
M230-SL021F	230	5.58	41.2	5.92	48.0	1000	20
M225-SL021F	225	5.46	41.2	5.79	48.0	1000	20
M220-SL022F	220	6.47	34.0	6.94	40.4	1000	20
M215-SL022F	215	6.34	33.9	6.78	40.4	1000	20
M210-SL022F	210	6.19	33.9	6.63	40.3	1000	20
M205-SL022F	205	6.07	33.8	6.47	40.3	1000	20
M200-SL022F	200	5.92	33.8	6.31	40.2	1000	20
M195-SL022F	195	5.79	33.7	6.15	40.2	1000	20
M190-SL022F	190	5.64	33.7	5.99	40.1	1000	20
M185-SL022F	185	5.51	33.6	5.84	40.1	1000	20
M180-SL022F	180	5.36	33.6	5.68	40.0	1000	20

7.0 Illustrations

Illustration 3t - Electrical Ratings [Mxxx-BR011F, Mxxx-BR012F, Mxxx-BR011H, Mxxx-BR012H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M285-BR011F	285	6.97	40.9	7.45	48.5	1000	20
M280-BR011F	280	6.85	40.9	7.32	48.5	1000	20
M275-BR011F	275	6.74	40.8	7.19	48.4	1000	20
M270-BR011F	270	6.62	40.8	7.06	48.4	1000	20
M265-BR011F	265	6.51	40.7	6.93	48.3	1000	20
M260-BR011F	260	6.37	40.7	6.80	48.3	1000	20
M255-BR011F	255	6.28	40.6	6.67	48.2	1000	20
M250-BR011F	250	6.16	40.6	6.54	48.2	1000	20
M245-BR011F	245	6.05	40.5	6.41	48.1	1000	20
M240-BR011F	240	5.93	40.5	6.28	48.1	1000	20
M235-BR011F	235	5.82	40.4	6.15	48.0	1000	20
M235-BR012F	235	6.91	34.0	7.43	40.5	1000	20
M230-BR012F	230	6.78	33.9	7.27	40.5	1000	20
M225-BR012F	225	6.64	33.9	7.12	40.4	1000	20
M220-BR012F	220	6.51	33.8	6.96	40.4	1000	20
M215-BR012F	215	6.37	33.8	6.80	40.3	1000	20
M210-BR012F	210	6.23	33.7	6.64	40.3	1000	20
M205-BR012F	205	6.08	33.7	6.48	40.2	1000	20
M200-BR012F	200	5.95	33.6	6.33	40.2	1000	20
M195-BR012F	195	5.80	33.6	6.17	40.1	1000	20

7.0 Illustrations

Illustration 3u - Electrical Ratings [Mxxx-BR031F, Mxxx-BR032F, Mxxx-BR031H, Mxxx-BR032H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating	Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M330-BR031F	330	8.09	40.8	8.60	48.9	1000	20	M330-BR031H	330	8.09	40.8	8.60	48.9	1000	20
M325-BR031F	325	7.99	40.7	8.47	48.8	1000	20	M325-BR031H	325	7.99	40.7	8.47	48.8	1000	20
M320-BR031F	320	7.86	40.7	8.34	48.8	1000	20	M320-BR031H	320	7.86	40.7	8.34	48.8	1000	20
M315-BR031F	315	7.76	40.6	8.21	48.7	1000	20	M315-BR031H	315	7.76	40.6	8.21	48.7	1000	20
M310-BR031F	310	7.64	40.6	8.08	48.7	1000	20	M310-BR031H	310	7.64	40.6	8.08	48.7	1000	20
M305-BR031F	305	7.53	40.5	7.95	48.6	1000	20	M305-BR031H	305	7.53	40.5	7.95	48.6	1000	20
M300-BR031F	300	7.41	40.5	7.82	48.6	1000	20	M300-BR031H	300	7.41	40.5	7.82	48.6	1000	20
M295-BR031F	295	7.30	40.4	7.69	48.5	1000	20	M295-BR031H	295	7.30	40.4	7.69	48.5	1000	20
M290-BR031F	290	7.18	40.4	7.56	48.5	1000	20	M290-BR031H	290	7.18	40.4	7.56	48.5	1000	20
M285-BR031F	285	7.07	40.3	7.43	48.4	1000	20	M285-BR031H	285	7.07	40.3	7.43	48.4	1000	20
M280-BR031F	280	6.95	40.3	7.30	48.4	1000	20	M280-BR031H	280	6.95	40.3	7.30	48.4	1000	20
M275-BR031F	275	6.84	40.2	7.17	48.3	1000	20	M275-BR031H	275	6.84	40.2	7.17	48.3	1000	20
M270-BR031F	270	6.72	40.2	7.04	48.3	1000	20	M270-BR031H	270	6.72	40.2	7.04	48.3	1000	20
M275-BR032F	275	8.11	33.9	8.60	40.8	1000	20	M275-BR032H	275	8.11	33.9	8.60	40.8	1000	20
M270-BR032F	270	7.96	33.9	8.45	40.7	1000	20	M270-BR032H	270	7.96	33.9	8.45	40.7	1000	20
M265-BR032F	265	7.84	33.8	8.29	40.7	1000	20	M265-BR032H	265	7.84	33.8	8.29	40.7	1000	20
M260-BR032F	260	7.69	33.8	8.13	40.6	1000	20	M260-BR032H	260	7.69	33.8	8.13	40.6	1000	20
M255-BR032F	255	7.57	33.7	7.98	40.6	1000	20	M255-BR032H	255	7.57	33.7	7.98	40.6	1000	20
M250-BR032F	250	7.41	33.7	7.82	40.5	1000	20	M250-BR032H	250	7.41	33.7	7.82	40.5	1000	20
M245-BR032F	245	7.29	33.6	7.66	40.5	1000	20	M245-BR032H	245	7.29	33.6	7.66	40.5	1000	20
M240-BR032F	240	7.14	33.6	7.51	40.4	1000	20	M240-BR032H	240	7.14	33.6	7.51	40.4	1000	20
M235-BR032F	235	7.01	33.5	7.35	40.4	1000	20	M235-BR032H	235	7.01	33.5	7.35	40.4	1000	20
M230-BR032F	230	6.87	33.5	7.19	40.3	1000	20	M230-BR032H	230	6.87	33.5	7.19	40.3	1000	20
M225-BR032F	225	6.74	33.4	7.04	40.3	1000	20	M225-BR032H	225	6.74	33.4	7.04	40.3	1000	20

7.0 Illustrations

Illustration 3v - Electrical Ratings [Mxxx-BR041F, Mxxx-BR042F, Mxxx-BR041H, Mxxx-BR042H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M240-BR041F	240	5.96	40.3	6.52	48.2	1000	20
M235-BR041F	235	5.85	40.2	6.39	48.1	1000	20
M230-BR041F	230	5.72	40.2	6.25	48.1	1000	20
M225-BR041F	225	5.61	40.1	6.12	48.0	1000	20
M220-BR041F	220	5.48	40.1	5.98	48.0	1000	20
M215-BR041F	215	5.38	40.0	5.84	47.9	1000	20
M210-BR041F	210	5.25	40.0	5.71	47.9	1000	20
M205-BR041F	205	5.14	39.9	5.57	47.8	1000	20
M200-BR041F	200	5.01	39.9	5.44	47.8	1000	20
M195-BR042F	195	5.93	32.9	6.48	40.2	1000	20
M190-BR042F	190	5.78	32.9	6.31	40.1	1000	20
M185-BR042F	185	5.64	32.8	6.15	40.1	1000	20
M180-BR042F	180	5.48	32.8	5.98	40.0	1000	20
M175-BR042F	175	5.35	32.7	5.81	40.0	1000	20
M170-BR042F	170	5.20	32.7	5.65	39.9	1000	20
M165-BR042F	165	5.06	32.6	5.48	39.9	1000	20

7.0 Illustrations

Illustration 3w - Electrical Ratings [Mxxx-WD011F,Mxxx-WD012F,Mxxx-WD011H,Mxxx-WD012H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M225-WD011H	225	5.53	40.7	5.84	48.2	1000	20
M220-WD011H	220	5.42	40.6	5.71	48.1	1000	20
M215-WD011H	215	5.30	40.6	5.58	48.1	1000	20
M210-WD011H	210	5.19	40.5	5.45	48.0	1000	20
M205-WD011H	205	5.06	40.5	5.32	48.0	1000	20
M200-WD011H	200	4.95	40.4	5.19	47.9	1000	20
M195-WD011H	195	4.83	40.4	5.06	47.9	1000	20
M190-WD011H	190	4.71	40.3	4.93	47.8	1000	20
M185-WD011H	185	4.59	40.3	4.80	47.8	1000	20
M185-WD012H	185	5.49	33.7	5.79	40.2	1000	20
M180-WD012H	180	5.34	33.7	5.63	40.1	1000	20
M175-WD012H	175	5.21	33.6	5.48	40.1	1000	20
M170-WD012H	170	5.06	33.6	5.32	40.0	1000	20
M165-WD012H	165	4.93	33.5	5.16	40.0	1000	20
M160-WD012H	160	4.78	33.5	5.01	39.9	1000	20
M155-WD012H	155	4.64	33.4	4.85	39.9	1000	20

7.0 Illustrations

Illustration 3x - Electrical Ratings [Mxxx-WD021F,Mxxx-WD022F,Mxxx-WD021H,Mxxx-WD022H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M320-WD021F	320	7.84	40.8	8.28	48.6	1000	20
M315-WD021F	315	7.72	40.8	8.15	48.6	1000	20
M310-WD021F	310	7.62	40.7	8.02	48.5	1000	20
M305-WD021F	305	7.49	40.7	7.89	48.5	1000	20
M300-WD021F	300	7.39	40.6	7.76	48.4	1000	20
M295-WD021F	295	7.25	40.6	7.63	48.4	1000	20
M290-WD021F	290	7.16	40.5	7.50	48.3	1000	20
M285-WD021F	285	7.04	40.5	7.37	48.3	1000	20
M280-WD021F	280	6.93	40.4	7.24	48.2	1000	20
M275-WD021F	275	6.81	40.4	7.11	48.2	1000	20
M270-WD021F	270	6.70	40.3	6.98	48.1	1000	20
M265-WD022F	265	7.79	34.0	8.25	40.5	1000	20
M260-WD022F	260	7.67	33.9	8.10	40.5	1000	20
M255-WD022F	255	7.52	33.9	7.94	40.4	1000	20
M250-WD022F	250	7.40	33.8	7.79	40.4	1000	20
M245-WD022F	245	7.25	33.8	7.63	40.3	1000	20
M240-WD022F	240	7.12	33.7	7.47	40.3	1000	20
M235-WD022F	235	6.97	33.7	7.32	40.2	1000	20
M230-WD022F	230	6.85	33.6	7.16	40.2	1000	20
M225-WD022F	225	6.70	33.6	7.01	40.1	1000	20

7.0 Illustrations

Illustration 3y - Electrical Ratings [Mxxx-WD031F,Mxxx-WD032F,Mxxx-WD031H,Mxxx-WD032H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating	Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M200-WD031F	200	4.82	41.5	5.26	47.9	1000	20	M200-WD031H	200	4.82	41.5	5.26	47.9	1000	20
M195-WD031F	195	4.70	41.5	5.13	47.9	1000	20	M195-WD031H	195	4.70	41.5	5.13	47.9	1000	20
M190-WD031F	190	4.59	41.4	5.00	47.8	1000	20	M190-WD031H	190	4.59	41.4	5.00	47.8	1000	20
M185-WD031F	185	4.47	41.4	4.87	47.8	1000	20	M185-WD031H	185	4.47	41.4	4.87	47.8	1000	20
M180-WD031F	180	4.36	41.3	4.74	47.7	1000	20	M180-WD031H	180	4.36	41.3	4.74	47.7	1000	20
M175-WD031F	175	4.24	41.3	4.61	47.7	1000	20	M175-WD031H	175	4.24	41.3	4.61	47.7	1000	20
M170-WD031F	170	4.13	41.2	4.48	47.6	1000	20	M170-WD031H	170	4.13	41.2	4.48	47.6	1000	20
M165-WD032F	165	4.90	33.7	5.36	40.0	1000	20	M165-WD032H	165	4.90	33.7	5.36	40.0	1000	20
M160-WD032F	160	4.75	33.7	5.19	39.9	1000	20	M160-WD032H	160	4.75	33.7	5.19	39.9	1000	20
M155-WD032F	155	4.61	33.6	5.03	39.9	1000	20	M155-WD032H	155	4.61	33.6	5.03	39.9	1000	20
M150-WD032F	150	4.47	33.6	4.87	39.8	1000	20	M150-WD032H	150	4.47	33.6	4.87	39.8	1000	20
M145-WD032F	145	4.33	33.5	4.71	39.8	1000	20	M145-WD032H	145	4.33	33.5	4.71	39.8	1000	20
M140-WD032F	140	4.18	33.5	4.55	39.7	1000	20	M140-WD032H	140	4.18	33.5	4.55	39.7	1000	20
M135-WD032F	135	4.04	33.4	4.38	39.7	1000	20	M135-WD032H	135	4.04	33.4	4.38	39.7	1000	20

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Illustration 3z - Electrical Ratings [Mxxx-WD041F,Mxxx-WD042F,Mxxx-WD041H,Mxxx-WD042H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M275-WD041F	275	6.76	40.7	7.17	48.5	1000	20
M270-WD041F	270	6.63	40.7	7.04	48.5	1000	20
M265-WD041F	265	6.53	40.6	6.91	48.4	1000	20
M260-WD041F	260	6.40	40.6	6.78	48.4	1000	20
M255-WD041F	255	6.30	40.5	6.65	48.3	1000	20
M250-WD041F	250	6.17	40.5	6.52	48.3	1000	20
M245-WD041F	245	6.06	40.4	6.39	48.2	1000	20
M240-WD041F	240	5.94	40.4	6.26	48.2	1000	20
M235-WD041F	235	5.83	40.3	6.13	48.1	1000	20
M230-WD041F	230	5.71	40.3	6.00	48.1	1000	20
M225-WD041F	225	5.60	40.2	5.87	48.0	1000	20
M225-WD042F	225	6.74	33.4	7.16	40.5	1000	20
M220-WD042F	220	6.61	33.3	7.00	40.5	1000	20
M215-WD042F	215	6.46	33.3	6.84	40.4	1000	20
M210-WD042F	210	6.33	33.2	6.68	40.4	1000	20
M205-WD042F	205	6.17	33.2	6.52	40.3	1000	20
M200-WD042F	200	6.04	33.1	6.36	40.3	1000	20
M195-WD042F	195	5.89	33.1	6.20	40.2	1000	20
M190-WD042F	190	5.76	33.0	6.04	40.2	1000	20
M185-WD042F	185	5.61	33.0	5.88	40.1	1000	20

7.0 Illustrations

Illustration 3aa - Electrical Ratings [Mxxx-ML011F,Mxxx-ML012F,Mxxx-ML011H,Mxxx-ML012H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M260-ML011F	260	6.37	40.8	6.75	48.4	1000	20
M255-ML011F	255	6.27	40.7	6.62	48.3	1000	20
M250-ML011F	250	6.14	40.7	6.49	48.3	1000	20
M245-ML011F	245	6.03	40.6	6.36	48.2	1000	20
M240-ML011F	240	5.91	40.6	6.23	48.2	1000	20
M235-ML011F	235	5.80	40.5	6.10	48.1	1000	20
M230-ML011F	230	5.68	40.5	5.97	48.1	1000	20
M225-ML011F	225	5.57	40.4	5.84	48.0	1000	20
M220-ML011F	220	5.45	40.4	5.71	48.0	1000	20
M220-ML012F	220	6.47	34.0	6.85	40.4	1000	20
M215-ML012F	215	6.34	33.9	6.70	40.4	1000	20
M210-ML012F	210	6.19	33.9	6.54	40.3	1000	20
M205-ML012F	205	6.07	33.8	6.39	40.3	1000	20
M200-ML012F	200	5.91	33.8	6.23	40.2	1000	20
M195-ML012F	195	5.79	33.7	6.07	40.2	1000	20
M190-ML012F	190	5.64	33.7	5.92	40.1	1000	20
M185-ML012F	185	5.51	33.6	5.76	40.1	1000	20
M180-ML012F	180	5.36	33.6	5.61	40.0	1000	20

7.0 Illustrations

Illustration 3ab - Electrical Ratings [Mxxx-ML021F,Mxxx-ML022F,Mxxx-ML021H,Mxxx-ML022H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M305-ML021F	305	7.44	41.0	7.86	48.6	1000	20
M300-ML021F	300	7.32	41.0	7.74	48.6	1000	20
M295-ML021F	295	7.21	40.9	7.61	48.5	1000	20
M290-ML021F	290	7.09	40.9	7.48	48.5	1000	20
M285-ML021F	285	6.99	40.8	7.35	48.4	1000	20
M280-ML021F	280	6.87	40.8	7.22	48.4	1000	20
M275-ML021F	275	6.76	40.7	7.09	48.3	1000	20
M270-ML021F	270	6.63	40.7	6.96	48.3	1000	20
M265-ML021F	265	6.53	40.6	6.83	48.2	1000	20
M260-ML021F	260	6.40	40.6	6.70	48.2	1000	20
M255-ML021F	255	6.30	40.5	6.58	48.1	1000	20
M250-ML022F	250	7.42	33.7	7.85	40.5	1000	20
M245-ML022F	245	7.29	33.6	7.69	40.5	1000	20
M240-ML022F	240	7.14	33.6	7.53	40.4	1000	20
M235-ML022F	235	7.01	33.5	7.38	40.4	1000	20
M230-ML022F	230	6.87	33.5	7.22	40.3	1000	20
M225-ML022F	225	6.74	33.4	7.06	40.3	1000	20
M220-ML022F	220	6.59	33.4	6.91	40.2	1000	20
M215-ML022F	215	6.46	33.3	6.75	40.2	1000	20
M210-ML022F	210	6.31	33.3	6.59	40.1	1000	20

7.0 Illustrations

Illustration 3ac - Electrical Ratings [Mxxx-LS021F,Mxxx-LS022F,Mxxx-LS021H,Mxxx-LS022H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M250-LS021F	250	6.10	41.0	6.58	48.3	1000	20
M245-LS021F	245	5.99	40.9	6.44	48.2	1000	20
M240-LS021F	240	5.87	40.9	6.31	48.2	1000	20
M235-LS021F	235	5.76	40.8	6.18	48.1	1000	20
M230-LS021F	230	5.64	40.8	6.05	48.1	1000	20
M225-LS021F	225	5.53	40.7	5.92	48.0	1000	20
M220-LS021F	220	5.41	40.7	5.79	48.0	1000	20
M215-LS021F	215	5.30	40.6	5.66	47.9	1000	20
M210-LS021F	210	5.17	40.6	5.52	47.9	1000	20
M205-LS022F	205	6.07	33.8	6.53	40.3	1000	20
M200-LS022F	200	5.92	33.8	6.37	40.2	1000	20
M195-LS022F	195	5.79	33.7	6.21	40.2	1000	20
M190-LS022F	190	5.64	33.7	6.05	40.1	1000	20
M185-LS022F	185	5.51	33.6	5.89	40.1	1000	20
M180-LS022F	180	5.36	33.6	5.73	40.0	1000	20
M175-LS022F	175	5.22	33.5	5.57	40.0	1000	20

7.0 Illustrations

Illustration 3ad - Electrical Ratings [Mxxx-LS031F,Mxxx-LS032F,Mxxx-LS031H,Mxxx-LS032H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M305-LS031F	305	7.14	42.7	8.47	48.8	1000	20
M300-LS031F	300	7.03	42.7	8.34	48.8	1000	20
M295-LS031F	295	6.92	42.6	8.20	48.7	1000	20
M290-LS031F	290	6.81	42.6	8.06	48.7	1000	20
M285-LS031F	285	6.71	42.5	7.92	48.6	1000	20
M280-LS031F	280	6.58	42.5	7.78	48.6	1000	20
M275-LS031F	275	6.49	42.4	7.64	48.5	1000	20
M270-LS031F	270	6.37	42.4	7.50	48.5	1000	20
M265-LS031F	265	6.26	42.3	7.36	48.4	1000	20
M260-LS031F	260	6.15	42.3	7.22	48.4	1000	20
M255-LS031F	255	6.04	42.2	7.09	48.3	1000	20
M250-LS032F	250	7.10	35.2	8.46	40.7	1000	20
M245-LS032F	245	6.98	35.1	8.29	40.7	1000	20
M240-LS032F	240	6.84	35.1	8.12	40.6	1000	20
M235-LS032F	235	6.71	35.0	7.95	40.6	1000	20
M230-LS032F	230	6.58	35.0	7.78	40.5	1000	20
M225-LS032F	225	6.45	34.9	7.61	40.5	1000	20
M220-LS032F	220	6.30	34.9	7.44	40.4	1000	20
M215-LS032F	215	6.18	34.8	7.27	40.4	1000	20
M210-LS032F	210	6.03	34.8	7.10	40.3	1000	20

7.0 Illustrations

Illustration 3ae - Electrical Ratings [Mxxx-GR021F,Mxxx-GR022F,Mxxx-GR021H,Mxxx-GR022H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M265-GR021F	265	6.21	42.7	7.27	48.6	1000	20
M260-GR021F	260	6.10	42.6	7.13	48.5	1000	20
M255-GR021F	255	5.99	42.6	6.99	48.5	1000	20
M250-GR021F	250	5.88	42.5	6.86	48.4	1000	20
M245-GR021F	245	5.77	42.5	6.72	48.4	1000	20
M240-GR021F	240	5.66	42.4	6.58	48.3	1000	20
M235-GR021F	235	5.54	42.4	6.45	48.3	1000	20
M230-GR021F	230	5.44	42.3	6.31	48.2	1000	20
M225-GR021F	225	5.32	42.3	6.17	48.2	1000	20
M220-GR022F	220	6.30	34.9	7.39	40.5	1000	20
M215-GR022F	215	6.18	34.8	7.22	40.5	1000	20
M210-GR022F	210	6.03	34.8	7.06	40.4	1000	20
M205-GR022F	205	5.91	34.7	6.89	40.4	1000	20
M200-GR022F	200	5.77	34.7	6.72	40.3	1000	20
M195-GR022F	195	5.64	34.6	6.55	40.3	1000	20
M190-GR022F	190	5.49	34.6	6.38	40.2	1000	20
M185-GR022F	185	5.36	34.5	6.22	40.2	1000	20
M180-GR022F	180	5.22	34.5	6.05	40.1	1000	20

7.0 Illustrations

Illustration 3af - Electrical Ratings [Mxxx-GR031F,Mxxx-GR032F,Mxxx-GR031H,Mxxx-GR032H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M220-GR031H	220	5.38	40.9	5.71	48.0	1000	20
M215-GR031H	215	5.27	40.8	5.58	47.9	1000	20
M210-GR031H	210	5.15	40.8	5.45	47.9	1000	20
M205-GR031H	205	5.04	40.7	5.32	47.8	1000	20
M200-GR031H	200	4.92	40.7	5.19	47.8	1000	20
M195-GR031H	195	4.80	40.6	5.06	47.7	1000	20
M190-GR031H	190	4.68	40.6	4.93	47.7	1000	20
M185-GR031H	185	4.57	40.5	4.80	47.6	1000	20
M180-GR031H	180	4.44	40.5	4.67	47.6	1000	20
M180-GR032H	180	5.36	33.6	5.66	40.0	1000	20
M175-GR032H	175	5.21	33.6	5.50	39.9	1000	20
M170-GR032H	170	5.07	33.5	5.35	39.9	1000	20
M165-GR032H	165	4.92	33.5	5.19	39.8	1000	20
M160-GR032H	160	4.79	33.4	5.03	39.8	1000	20
M155-GR032H	155	4.64	33.4	4.88	39.7	1000	20
M150-GR032H	150	4.50	33.3	4.72	39.7	1000	20
M220-GR031F	220	5.38	40.9	5.71	48.0	1000	20
M215-GR031F	215	5.27	40.8	5.58	47.9	1000	20
M210-GR031F	210	5.15	40.8	5.45	47.9	1000	20
M205-GR031F	205	5.04	40.7	5.32	47.8	1000	20
M200-GR031F	200	4.92	40.7	5.19	47.8	1000	20
M195-GR031F	195	4.80	40.6	5.06	47.7	1000	20
M190-GR031F	190	4.68	40.6	4.93	47.7	1000	20
M185-GR031F	185	4.57	40.5	4.80	47.6	1000	20
M180-GR031F	180	4.44	40.5	4.67	47.6	1000	20
M180-GR032F	180	5.36	33.6	5.66	40.0	1000	20
M175-GR032F	175	5.21	33.6	5.50	39.9	1000	20
M170-GR032F	170	5.07	33.5	5.35	39.9	1000	20
M165-GR032F	165	4.92	33.5	5.19	39.8	1000	20
M160-GR032F	160	4.79	33.4	5.03	39.8	1000	20
M155-GR032F	155	4.64	33.4	4.88	39.7	1000	20
M150-GR032F	150	4.50	33.3	4.72	39.7	1000	20


7.0 Illustrations

Illustration 3ag - Electrical Ratings [Mxxx-GR011F,Mxxx-GR012F,Mxxx-GR011H,Mxxx-GR012H]

Model Name	Pmax [W]	Imax [A]	Vmax [V]	Isc [A]	Voc [V]	MSV [V]	Fuse Rating
M330-GR011H	330	7.84	42.1	8.24	48.6	1000	20
M325-GR011H	325	7.74	42.0	8.11	48.5	1000	20
M320-GR011H	320	7.62	42.0	7.99	48.5	1000	20
M315-GR011H	315	7.52	41.9	7.86	48.4	1000	20
M310-GR011H	310	7.40	41.9	7.74	48.4	1000	20
M305-GR011H	305	7.30	41.8	7.61	48.3	1000	20
M300-GR011H	300	7.17	41.8	7.49	48.3	1000	20
M295-GR011H	295	7.07	41.7	7.37	48.2	1000	20
M290-GR011H	290	6.95	41.7	7.24	48.2	1000	20
M285-GR011H	285	6.85	41.6	7.12	48.1	1000	20
M280-GR011H	280	6.73	41.6	6.99	48.1	1000	20
M275-GR011H	275	6.63	41.5	6.87	48.0	1000	20
M270-GR011H	270	6.51	41.5	6.74	48.0	1000	20
M275-GR012H	275	7.83	35.1	8.24	40.6	1000	20
M270-GR012H	270	7.69	35.1	8.09	40.5	1000	20
M265-GR012H	265	7.57	35.0	7.94	40.5	1000	20
M260-GR012H	260	7.43	35.0	7.79	40.4	1000	20
M255-GR012H	255	7.31	34.9	7.64	40.4	1000	20
M250-GR012H	250	7.17	34.9	7.49	40.3	1000	20
M245-GR012H	245	7.04	34.8	7.34	40.3	1000	20
M240-GR012H	240	6.90	34.8	7.19	40.2	1000	20
M235-GR012H	235	6.77	34.7	7.04	40.2	1000	20
M230-GR012H	230	6.63	34.7	6.89	40.1	1000	20
M225-GR012H	225	6.50	34.6	6.74	40.1	1000	20
M330-GR011F	330	7.84	42.1	8.24	48.6	1000	20
M325-GR011F	325	7.74	42.0	8.11	48.5	1000	20
M320-GR011F	320	7.62	42.0	7.99	48.5	1000	20
M315-GR011F	315	7.52	41.9	7.86	48.4	1000	20
M310-GR011F	310	7.40	41.9	7.74	48.4	1000	20
M305-GR011F	305	7.30	41.8	7.61	48.3	1000	20
M300-GR011F	300	7.17	41.8	7.49	48.3	1000	20
M295-GR011F	295	7.07	41.7	7.37	48.2	1000	20
M290-GR011F	290	6.95	41.7	7.24	48.2	1000	20
M285-GR011F	285	6.85	41.6	7.12	48.1	1000	20
M280-GR011F	280	6.73	41.6	6.99	48.1	1000	20
M275-GR011F	275	6.63	41.5	6.87	48.0	1000	20
M270-GR011F	270	6.51	41.5	6.74	48.0	1000	20
M275-GR012F	275	7.83	35.1	8.24	40.6	1000	20
M270-GR012F	270	7.69	35.1	8.09	40.5	1000	20
M265-GR012F	265	7.57	35.0	7.94	40.5	1000	20
M260-GR012F	260	7.43	35.0	7.79	40.4	1000	20
M255-GR012F	255	7.31	34.9	7.64	40.4	1000	20
M250-GR012F	250	7.17	34.9	7.49	40.3	1000	20
M245-GR012F	245	7.04	34.8	7.34	40.3	1000	20
M240-GR012F	240	6.90	34.8	7.19	40.2	1000	20
M235-GR012F	235	6.77	34.7	7.04	40.2	1000	20
M230-GR012F	230	6.63	34.7	6.89	40.1	1000	20
M225-GR012F	225	6.50	34.6	6.74	40.1	1000	20

8.0 Test Summary			
Evaluation Period	12-28-2020 to 02-27-2022		Project No. G104527642
Sample Rec. Date	22-Jun-2021	Condition Production	Sample ID. LAN2106220729
Test Location	25791 Commercentre Drive, Lake Forest, CA 92630		
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.			
The following tests were performed:			
Test Description	UL/CSA/IEC 61730-2:2017 Ed.1		
Visual inspection	MST 01		
Maximum power determination	MST 03		
Durability of markings	MST 05		
Bypass diode functionality test	MST 07		
Bypass diode thermal test	MST 25		
Accessibility test	MST 11		
Cut susceptibility test	MST 12		
Continuity test of equipotential bonding	MST 13		
Impulse voltage test	MST 14		
Insulation test	MST 04		
Wet leakage current test	MST 17		
Temperature test	MST 21		
Hot-spot endurance test	MST 22		
Ignitability test	MST 24		
Reverse current overload test	MST 26		
Module breakage test	MST 32		
Static mechanical load test	MST 34		
Materials creep test	MST 37		
Robustness of terminations test	MST 42		
Thermal cycling test (50 & 200 cycles)	MST 51		
Humidity freeze test	MST 52		
Damp heat test	MST 53		
UV test	MST 54		
Cold conditioning	MST 55		
Dry heat conditioning	MST 56		

8.0 Test Summary			
Evaluation Period	06-30-2021 to 02-27-2022		Project No. G104527642
Sample Rec. Date	30-Jun-2021	Condition Production	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	
Evaluation Period	08-05-2022 to 09-08-2022		Project No. G105076869
Sample Rec. Date	30-Jun-2021	Condition Production	Sample ID. LAN2208051251
Test Location	25791 Commercentre Drive, Lake Forest, CA 92630		
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	
Maximum power determination		MST 03	

8.1 Signatures			
Representative samples 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:	Bo Li	Reviewed by:	Abhinav Prakash
Title:	Project Engineer	Title:	Reviewer
Signature:		Signature:	