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Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Lake Forest, CA



Control Number: 5009040

Authorized by: _____
for L. Matthew Snyder, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

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Standard(s):	Standard for Flat-Plate Photovoltaic Modules and Panels [UL 1703:2002 Ed.3+R:26Sep2018] Flat Plate Photovoltaic Modules and Panels [ULC ORD C1703:2011 Ed.1]
Product:	Photovoltaic modules
Brand Name:	Onyx
Models:	ONYX G/B M140, ONYX G/B M170, ONYX G/B M230, ONYX G/B M240, ONYX G/B M250, ONYX G/B M260, ONYX G/B M270, ONYX G/B P230, ONYX G/B P240, ONYX G/B P250, ONYX G/B P260, ONYX G/G M01244, ONYX G/G M01688, ONYX G/G M03444, ONYX G/G M03666, ONYX G/G M03688, ONYX G/G M03611, ONYX G/G M04844, ONYX G/G M06044, ONYX G/G M06666, ONYX G/G M07255, ONYX G/G M08855, ONYX G/G M10055, ONYX G/G M10855, ONYX G/G M11255, ONYX G/G M12055, ONYX G/G M14055, ONYX G/G M14455, ONYX G/G M16855, ONYX G/G M02866, ONYX G/G M03266, ONYX G/G M02066, ONYX G/G M01266, ONYX G/G M01666, ONYX G/G M02466.

7.0 Illustrations

Illustration 13 - Module ratings for all models in this report

Model	Pmp (W)	Voc(V)	Isc(A)	Vmp(V)	Imp (A)	MSV
12 Mono Cells Models Glass on Glass (660 x 540mm)						
Onyx G/G M01244	55	8	9.09	6	8.55	600 V
12 Mono Cells Models Glass on Glass (838 x 711mm)						
Onyx G/G M01266	53	8	8.93	6	8.39	600 V
16 Mono Cells Models Glass on Glass (698 x 698mm)						
Onyx G/G M01688	60	10.6	7.7	8.25	7.2	600 V
16 Mono Cells Models Glass on Glass (914 x 838mm)						
Onyx G/G M01666	71	10	8.93	8	8.39	600 V
20 Mono Cells Models Glass on Glass (1041 x 838mm)						
Onyx G/G M02066	88	13	8.93	11	8.39	600 V
24 Mono Cells Models Glass on Glass (1092 x 838mm)						
Onyx G/G M02466	106	15	8.93	13	8.39	600 V
28 Mono Cells Models Glass on Glass (1422 x 838mm)						
Onyx G/G M02866	124	18	8.93	15	8.39	600 V
32 Mono Cells Models Glass on Glass (1676 x 838mm)						
Onyx G/G M03266	141	20	8.93	17	8.39	600 V
34 Mono Cells Models Glass on Glass (1386 x 1200mm) (Hexagonal)						
Onyx G/G M03444	144	21.21	8.95	17.68	8.20	600 V
36 Mono Cells Models Glass on Glass (1545 x 700mm)						
Onyx G/G M03611	140	23.12	8.69	17.38	8.14	600 V
Onyx G/G M03688	140	23.43	8.84	17.64	8.15	600 V
Onyx G/G M03666	140	23.62	8.96	17.98	8.16	600 V
36 Mono Cells Models with Frame & BackSheet (1706 x 1006mm)						
Onyx G/B M140	140	23.62	8.96	17.98	8.16	600 V
40 Mono Cells Models with Frame & BackSheet (1706 x 1006mm)						
Onyx G/B M170	170	28.51	8.96	21.3	8.16	600 V
48 Mono Cells Models Glass on Glass (1460 x 1700mm)						
Onyx G/G M04844	200	31.89	8.96	24.98	8.16	600 V
60 Poly Cells Models with Frame & BackSheet (1706 x 1006mm)						
Onyx G/B P230	230	37.14	8.47	29.34	7.79	600 V
Onyx G/B P240	240	37.32	8.53	29.48	7.85	600 V
Onyx G/B P250	250	37.45	8.50	29.59	7.82	600 V
Onyx G/B P260	260	37.62	8.61	29.72	8.01	600 V
60 Mono Cells Models with Frame & BackSheet (1706 x 1006mm)						
Onyx G/B M230	230	38.62	8.65	28.93	7.85	600 V
Onyx G/B M240	240	38.90	8.84	30.42	8.03	600 V
Onyx G/B M250	250	39.18	8.96	30.64	8.14	600 V
Onyx G/B M260	260	39.30	9.18	30.73	8.34	600 V
Onyx G/B M270	270	39.59	9.37	30.96	8.58	600 V
60 Mono Cells glass on glass models without a frame (1460x1700mm)						
Onyx G/G M06044	250	39.18	8.96	30.64	8.16	600 V
66 Mono Cells glass on glass models without a frame (1977x1009mm)						
Onyx G/G M06666	291	42	8.93	35.00	8.39	1000 V
72 Mono Cells Models Glass on Glass (2000 x 1600 mm)						
Onyx G/G M07255	300	47.10	8.99	37.68	8.16	600 V
88 Mono Cells Models Glass on Glass (2000 x 1600 mm)						
Onyx G/G M08855	360	55.6	8.99	45.02	8.16	600 V
100 Mono Cells Models Glass on Glass (2000 x 2000 mm)						
Onyx G/G M10055	400	62.02	8.99	50.68	8.16	600 V

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Model	Pmp (W)	Voc(V)	Isc(A)	Vmp(V)	Imp (A)	MSV
108 Mono Cells glass on glass models without a frame (2000x1600mm)						
Onyx G/G M10855	450	70.96	9.00	56.76	8.18	600 V
112 Mono Cells glass on glass models without a frame (2000x1600mm)						
Onyx G/G M11255	470	71.00	9.00	58.38	8.18	600 V
120 Mono Cells Models Glass on Glass (2000 x 2000 mm)						
Onyx G/G M12055	500	78.84	9	63.07	8.18	600 V
140 Mono Cells glass on glass models without a frame (2000x2000mm)						
Onyx G/G M14055	550	84.00	8.61	63.00	7.75	600 V
144 Mono Cells glass on glass models without a frame (2000x2000mm)						
Onyx G/G M14455	600	86.40	8.61	69.12	7.75	600 V
168 Mono Cells glass on glass models without a frame (2000x2000mm)						
Onyx G/G M16855	650	100.80	8.61	80.64	7.75	600 V