

Certificate number	17217 Rev.2	Replaces	17217 Rev.1
Issued	05/06/2023	First edition	21/12/2022
Report number	PKC0012006	Expiry date	20/12/2027
Page	1 of 4	Contract number	PKC0012017

Product Certificate Photovoltaic (PV) Panels

License holder:	Eclipse Italia S.r.l. Corso Venezia 3, 20121 Milano (MI), Italy
Production site(s):	Eclipse Italia S.r.l. Località Merlaro, 25078 Nozza di Vestone (BS), Italy
Model(s):	ECLXXXM6; ECLXXXM2; ECLXXXM2HC; ECLXXXM3; ECLXXXM3HC; ECLXXXM6HC; ECLXXXM5; ECLXXXM10HC (where "XXX" = rated power. See extended models in the Annex)*

The product as listed in this certificate and marked with the below given Kiwa Cermet Italia mark for Photovoltaic (PV) Panels, can be considered complying to the requirements of Kiwa Cermet Italia Guideline "TD Ki – 0409, Solar Products and Components" based upon the following aspects:

Laboratory testing of the panels, which are performed by an accredited laboratory in accordance to ISO/IEC 17025 -see annex-, using the following standards:

- IEC 61215-1:2016 / EN 61215-1:2016
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements
- IEC 61215-1-1:2016 / EN 61215-1-1:2016
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
- IEC 61215-2:2016 / EN 61215-2:2017
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures
- IEC 61730-1:2016 / EN IEC 61730-1:2018
Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction
- IEC 61730-2:2016 / EN IEC 61730-2:2018
Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing

Remarks: to be used in plants at a maximum system voltage (Voc at STC) up to 1500 Vdc (Class II); fire test (IEC 61730-2 / MST 23 – Class C) was performed.

Periodic Inspection of the Factory site(s), according to "TD Ki – 0409", which includes:

- inspection of the manufacturing quality control and production procedures;
- inspection of the produced panels and confirmation that these are identical to the tested panels;
- periodic verification of the manufacturer test facilities.

This certificate is issued in accordance with the Kiwa Cermet Italia regulations.

Publication of the certificate is allowed.

The validity of this certificate is subject to the positive result of periodic surveillance visits.

The validity of this certificate can be verified on request at the following e-mail address: energy@kiwacermet.it.

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Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl

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President
Giampiero Belcredi

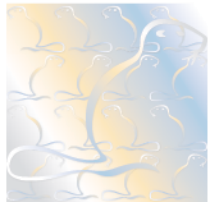


PRD N° 069B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements



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Annex Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
ECLXXXM6	72	166x166	Mono-Si	2071x1048x40	From 410 to 430 in steps of 5
ECLXXXM6	60	166x166	Mono-Si	1730x1048x40	From 340 to 360 in steps of 5
ECLXXXM2	72	156.75x156.75	Mono-Si	1956x992x40	From 345 to 375 in steps of 5
ECLXXXM2HC	144	156.75x78.38	Mono-Si	2020x1002x40; 2010x992x40	From 370 to 395 in steps of 5
ECLXXXM3	72	158.75x158.75	Mono-Si	1979x1002x40; 1979x996x40	Power range 1: From 350 to 405 in steps of 5
					Power range 2: From 365 to 390 in steps of 5
ECLXXXM3HC	144	158.75x79.38	Mono-Si	2015x1002x40; 2008x1002x40; 2015x996x40	From 390 to 405 in steps of 5

Remarks: XXX = rated power. Different cell types match different power ranges.

President
Giampiero Belcredi

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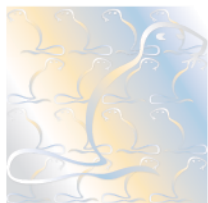
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Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
ECLXXXM6HC	144	166x83	Mono-Si	2018x1048x35/40; 2102x1040x35/40; 2115x1048x35/40; 2094x1038x35/40; 2120x1052x35/40; 2115x1052x35/40; 2104x1040x35/40; 2096x1040x35/40; 2098x1046x35/40	From 425 to 460 in steps of 5
ECLXXXM6HC	144	166x83	Mono-Si	2018x1048x35/40; 2102x1040x35/40; 2115x1048x35/40; 2094x1038x35/40; 2120x1052x35/40; 2115x1052x35/40; 2104x1040x35/40; 2096x1040x35/40; 2098x1046x35/40	From 425 to 435 in steps of 5
ECLXXXM6HC	120	166x83	Mono-Si	1765x1048x35/40 1755x1038x35/40	From 355 to 385 in steps of 5
ECLXXXM6 ¹	72	166x166	Mono-Si	2071x1048x40	From 415 to 420 in steps of 5
ECLXXXM6 ¹	66	166x166	Mono-Si	1900x1048x40	From 360 to 400 in steps of 5
ECLXXXM6 ¹	60	166x166	Mono-Si	1730x1048x40	From 340 to 360 in steps of 5
ECLXXXM5	72	163.75x163.75	Mono-Si	2045x1033x40; 2071x1048x40	From 390 to 415 in steps of 5

Remarks: XXX = rated power. Different cell types match different power ranges. ¹modules with 9BB.

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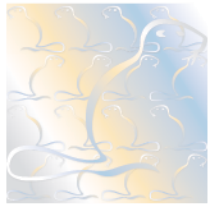
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Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
ECLXXXM3 ¹	72	158.75x158.75	Mono-Si	1979x1002x40; 1979x996x40	From 375 to 400 in steps of 5
ECLXXXM10HC	144	182x91	Mono-Si	2274x1134x35/40; 2261x1134x35/40; 2278x1133x35/40; 2256x1133x35/40; 2279x1134x35/40; 2285x1134x35/40; 2284x1134x35/40; 2094x1134x35/40	From 520 to 550 in steps of 5
ECLXXXM10HC	132	182x91	Mono-Si	2094x1135x35/40	From 470 to 520 in steps of 5
ECLXXXM10HC	132	182x91	Mono-Si	2094x1135x35/40	From 460 to 505 in steps of 5
ECLXXXM10HC	120	182x91	Mono-Si	1909x1134x35	From 430 to 460 in steps of 5
ECLXXXM10HC	108	182x91	Mono-Si	1722x1134x35	From 385 to 415 in steps of 5

Remarks: XXX = rated power. Different cell types match different power ranges. ¹modules with 9BB.

President
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Laboratory test reports nr.: 704061821009-00 part 1 of 2; 704061821009-00 part 2 of 2; 704061821009 Rev.01; 704061821009-02 part 1 of 2; 704061821009-02 part 2 of 2; 704061821009-03 part 1 of 2; 704061821009-03 part 2 of 2; 704061821009-04 part 1 of 2; 704061821009-04 part 2 of 2; 704061821009-05 A1 part 1 of 2; 704061821009-05 A1 part 2 of 2; 704061821009-05 part 1 of 2; 704061821009-06 part 1 of 1; 704061821009-07 part 1 of 2; 704061821009-07 part 2 of 2; 704061821009-08 part 1 of 2; 704061821009-08 part 2 of 2; GDP221252; GDP231137; L0011553/B rev.00; 2.00.80582.1.0-23; L0012292/A rev.00; L0012292/B rev.00.

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