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| Certificate number | 7654 Rev.0 | Replaces | - |
| Issued | 31/07/2024 | First edition | 31/07/2024 |
| Report number | PKC0013147 | Expiry date | 30/07/2029 |
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Certificate of Type Testing Conformity

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|----------------------------|---|
| License holder: | Tenka Solar GmbH Landsbergerstrasse 155, Haus 1, 80687, Munich, Germany |
| Production site(s): | Taizhou Tenka Solar Technology Co., Ltd. No.8460, 4th floor, Building 1, E-work Industrial Park,, Taizhou, China |
| Product: | Photovoltaic (PV) module |
| Model(s): | Orion III - 450 M (see extended models in the Annex)* |

Kiwa Cermet Italia hereby declares that the product can be considered complying to the type testing based upon the following aspects:

- IEC 61215-1:2021 / EN IEC 61215-1:2021
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements
- IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
- IEC 61215-2:2021 / EN IEC 61215-2:2021
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures

Test MQT 17 - Hail test
Spheres reference diameter = 45 mm. Spheres reference speed = 30.7 m/sec
- Kiwa Cermet Italia Guideline "TD Ki – 0409, Solar Products and Components"

Modifications to the product, may imply re-testing and re-certification.

This type testing certificate does not include the Initial and the Periodic Inspection of the production samples and does not certify the quality and safety of the serial products.

This certificate is issued in accordance with the Kiwa Cermet Italia regulations for Product Certification. Publication of the certificate is allowed.

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Kiwa Cermet Italia S.p.A.
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Industry Division Manager
Maurizio Lorenzon



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) |
|-------------------|--------------|----------------|-----------------|------------------|-------------------------------|
| Orion III – XXX M | 108 | 182x91 | Orion | 1724x1134x30 | From 410 to 465 in steps of 5 |
| Orion IV – XXX M | 108 | 182x91 | Orion | 1724x1134x30 | From 410 to 465 in steps of 5 |

Remarks:

XXX = rated power.

Module size can vary up to ± 4 cm. This variation does not influence the result of the hail test.

Industry Division Manager
Maurizio Lorenzon

Laboratory test reports nr.: L0013147 rev.01.

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