

Certificate number	16465 Rev.3	Replaces	16465 Rev.2
Issued	11/06/2020	First edition	18/12/2019
Report number	IN0000366	Expiry date	17/12/2024
Page	1 of 2	Contract number	IN0000405

## Product Certificate Photovoltaic (PV) Panels

<b>License holder:</b>	<b>Alfa Solar Enerji İnşaat Sanayi Ve Tic A.Ş</b> Mevlana Bulvari Balgat Mah. No:139 Kat:9 Yelken Plaza Çankaya7 Ankara, Turkey
<b>Production site(s):</b>	Alfa Solar Enerji İnşaat Sanayi Ve Tic A.Ş Kirikkale 1.Osb Kizilirmak Cad. 2. Sok. No:13 Yahşihan Kirikkale, Turkey
<b>Model(s):</b>	A3SYYPXXX; A3SYYMXXX (where: "YY" = number of solar cells; "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  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements
- IEC 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  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures
- IEC 61730-1:2016  
Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction
- IEC 61730-2:2016  
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](mailto:energy@kiwacermet.it).*

*Any total or partial reproduction of this document in any form, without Kiwa Cermet Italia express authorization, is prohibited.*

**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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Chief Operating Officer  
Giampiero Belcredi




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## Product Certificate Photovoltaic (PV) Panels

### Annex Extended models\*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
A3S72PXXX	72	156,75x156,75	Poly-Si	1969 x 997 x 42	From 330 to 350 in steps of 5
A3S60PXXX	60	156,75x156,75	Poly-Si	1652 x 997 x 35 1652 x 997 x 42	From 275 to 290 in steps of 5
A3S72MXXX	72	156,75x156,75	Mono-Si	1969 x 997 x 42	From 365 to 385 in steps of 5
A3S60MXXX	60	156,75x156,75	Mono-Si	1652 x 997 x 35 1652 x 997 x 42	From 305 to 320 in steps of 5
A3S72MXXX	72	158,75x158,75	Mono-Si	1984 x 1008 x 42	From 390 to 400 in steps of 5
A3S60MXXX	60	158,75x158,75	Mono-Si	1667 x 1008 x 35 1667 x 1008 x 42	From 320 to 330 in steps of 5

Remarks: XXX = rated power.

Chief Operating Officer  
Giampiero Belcredi



Laboratory test reports nr.: 1635.0CI0262/19; 2.00.80271.1.0-12b; L0000366/A rev.00; L0000366/B rev.00; L0000366/C rev.00; L0000366/D1 rev.00; L0000366/D3 rev.00; L0000366/E rev.00; L0000408/A rev.00; L0000408/B rev.00; L0000440/A rev.00; L0000440/B rev.00.

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