



# C E R T I F I C A T E

Certificate No. 11-PPV-0000007/01-W01-TIC

WE HEREBY CERTIFY THAT THE PHOTOVOLTAIC MODULES WITH THE MODEL  
SV60-215, SV60-240 E, SV60-255 E, SV60-240, SV60-255 ED, SV60-245 D  
(Tested Type)

And with Types extended for similarity\*  
- See Annex -

MANUFACTURER & LICENSE HOLDER

**SOLVIS d.o.o.**

Gospodarska zona Brezje bb, P.O.B. 113, HR-42000 Varazdin; Croatia

IS IN COMPLIANCE WITH THE REQUIREMENTS OF

**IEC 61215:2005**

Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval  
&

**EN 61730-1 : 2007 / EN 61730-2 : 2007\*\***

Photovoltaic (PV) module safety qualification

To be used in plants at a total voltage up to : 1000 Vdc (application Class A)

AS RESULT OF THE TEST IN OUR APPOINTED LABORATORY

EA ACCREDITED LABORATORY N. 0085 & 0192

REPORT No. TIC-M1.09.FVOL.500/37423Rev1, TIC-M1.10.FVOL.0645/41130  
TIC-PVQ01-25638-130010, TIC-PS101-25638-130010, TIC-PS102-25638-130010  
TIC-PVQ02-25638-130010, TIC-PS201-25638-130010, TIC-PS202-25638-130010  
TIC-PVQ01-25638-130105, TIC-PS201-25638-130105, TIC-PS101-25638-130105  
TIC-PVQ01-25638-130151, TIC-PS201-25638-130151, TIC- PS101-25638-130151

THE FACTORY INSPECTION AT SITE SOLVIS d.o.o., Croatia-Hrvatska  
ON THE DATE OF 26<sup>th</sup> August 2013 WITH

REPORT No. RFI-0813-PPV-TIC-0000007-11

**Expiring date 08.02.2016**

( Providing that the testing basis continues unchanged )

Notes: (\*)The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type SV60-215, SV60-240 E, SV60-255 E, SV60-240, SV60-255 ED, SV60-245 D. Further details on certified models are reported on the attachment (YYY = letter(s), R for AR coating glass, F = black frame, B = black backsheet and silver frame BC = black backsheet and black frame). Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, electrical circuit, power output, components or processing may require the repetition of some of the qualification tests in order to retain type approval. The certification is performed on tested model as complete test and retest according to IEC61730 "Retesting guideline" for similarity with differences in cell technology. This certificate is for type approval and based on voluntarily product test. The Manufacturer Inspection is conducted by TÜV INTERCERT on the base of the internal procedures. (\*\*) The fire test (IEC 61730-2 / MST 23) was not performed.



Am Bonner Bogen 2, D-53227 Bonn,

10.03.2014 Dipl.-Ing. F. Sergizzarea  
TÜV INTERCERT Certification Body

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# C E R T I F I C A T E

## Annex 1 of

**Certificate No. 11-PPV-0000007/01-W01-TIC**

### THE PHOTOVOLTAIC MODULES WITH THE MODELS

Tested Type	Cell Number	Cell Size	Cell Technology	Power [W]
SV60-240 E	60	156x156mm	monocrystalline Si	240
SV60-255 E	60	156x156mm	monocrystalline Si	255
SV60-255 ED	60	156x156mm	monocrystalline Si	255

**Types extended for similarity\* with Mono-Si cell technology without need of re-testing (according to IEC61215 "Retesting guideline"):**

Type	Cell Number	Cell Size	cell technology	Power [W]
SV60-XXX ED YYY*	60	156x156 mm	monocrystalline Si	from 230 to 280
SV54-XXX ED YYY*	54	156x156 mm	monocrystalline Si	from 205 to 245
SV48-XXX ED YYY*	48	156x156 mm	monocrystalline Si	from 185 to 225
SV36-XXX ED YYY*	36	156x156 mm	monocrystalline Si	from 140 to 170
SV36(5)-XXX ED YYY*	36	125x125 mm	monocrystalline Si	from 85 to 105
SV60-XXX E YYY*	60	156x156 mm	monocrystalline Si	from 230 to 280
SV54-XXX E YYY*	54	156x156 mm	monocrystalline Si	from 205 to 245
SV48-XXX E YYY*	48	156x156 mm	monocrystalline Si	from 185 to 225
SV36-XXX E YYY*	36	156x156 mm	monocrystalline Si	from 140 to 170
SV36(5)-XXX E YYY*	36	125x125 mm	monocrystalline Si	from 85 to 105

**Notes: (\*)**The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type SV60-215, SV60-240 E, SV60-255 E, SV60-240, SV60-255 ED, SV60-245 D (YYY = letter(s), R for AR coating glass, F = black frame, B = black backsheet and silver frame BC = black backsheet and black frame). Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, electrical circuit, power output, components or processing may require the repetition of some of the qualification tests in order to retain type approval. The certification is performed on tested model as complete test and retest according to IEC61215 "Retesting guideline" for similarity with differences in cell technology. This certificate is for type approval and based on voluntarily product test. The Manufacturer Inspection is conducted by TÜV INTERCERT on the base of the internal procedures. (\*\*) The fire test (IEC 61730-2 / MST 23) was not performed.



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# C E R T I F I C A T E

## Annex 2 of

Certificate No. 11-PPV-0000007/01-W01-TIC

### THE PHOTOVOLTAIC MODULES WITH THE MODELS

Tested Type	Cell Number	Cell Size	Cell Technology	Power [W]
SV60-215	60	156x156mm	polycrystalline Si	215
SV60-240	60	156x156mm	polycrystalline Si	240
SV60-245 D	60	156x156mm	polycrystalline Si	245

Types extended for similarity\* with Poly-Si cell technology without need of re-testing (according to IEC61215 "Retesting guideline"):

Type	Cell Number	Cell Size	cell technology	Power [W]
SV60-XXX D YYY*	60	156x156 mm	polycrystalline Si	from 225 to 270
SV54-XXX D YYY*	54	156x156 mm	polycrystalline Si	from 200 to 240
SV48-XXX D YYY*	48	156x156 mm	polycrystalline Si	from 180 to 215
SV36-XXX D YYY*	36	156x156 mm	polycrystalline Si	from 135 to 160
SV60-XXX YYY*	60	156x156 mm	polycrystalline Si	from 220 to 264
SV54-XXX YYY*	54	156x156 mm	polycrystalline Si	from 195 to 235
SV48-XXX YYY*	48	156x156 mm	polycrystalline Si	from 175 to 210
SV36-XXX YYY*	36	156x156 mm	polycrystalline Si	from 130 to 155

Notes: (\*)The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type SV60-215, SV60-240 E, SV60-255 E, SV60-240, SV60-255 ED, SV60-245 D (YYY = letter(s), R for AR coating glass, F = black frame, B = black backsheet and silver frame BC = black backsheet and black frame). Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, electrical circuit, power output, components or processing may require the repetition of some of the qualification tests in order to retain type approval. The certification is performed on tested model as complete test and retest according to IEC61215 "Retesting guideline" for similarity with differences in cell technology. This certificate is for type approval and based on voluntarily product test. The Manufacturer Inspection is conducted by TÜV INTERCERT on the base of the internal procedures. (\*\*) The fire test (IEC 61730-2 / MST 23) was not performed.



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