TÜV InterCert Group of TÜV Saarland

CERTIFICATE

Certificate No. **11-PPV-0000007/01-M01-TIC**

WE HEREBY CERTIFY THAT THE PHOTOVOLTAIC MODULES WITH THE MODEL

AC-xxxM/156-60(S) (xxx = 210-264Wp), AC-xxxP/156-60(S) (xxx = 210-245Wp), AC-xxxM/156-48(S) (xxx = 170-215Wp), AC-xxxP/156-48(S) (xxx = 165-190Wp), AC-xxxM/156-36(S) (xxx = 125-160Wp), AC-xxxP/156-36(S) (xxx = 115-145Wp), AC-xxxM/125-36(S) (xxx = 80-100Wp)

SV60-215 & SV60-240 E (Tested Type)

And with Types extended for similarity*
- See Annex -

OEM APPLICANT & LICENSE HOLDER

AXITEC GmbH
Otto-Lilienthal-Str.5 D-71034 Böblingen

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

REPORT No. TIC-M1.09.FVOL.500/37423Rev1 & TIC-M1.10.FVOL.0645/41130

Expiring date **08.02.2016**
(Providing that the testing basis continues unchanged)

Notes: (*) The manufacturer and the OEM applicant declares that these products are constructed using the same materials, components and processes as the tested type SV60-215 & SV60-240 E. Further details on certified models are reported on the attachment. Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, 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 IECEE "Retesting guideline" for similarity with differences in cell technology. This certificate is for type approval and based on voluntarily product test **without Factory Inspection.**

Deutscher Akkreditierungs Rat
DAR
DAT-ZE-030/09-00

TÜV InterCert Group of TÜV Saarland

TÜV InterCert PRODUCT 3223

Am Bonner Bogen 2, D-53227 Bonn, 23.07.2012

Ing. R. Bolzonaro
TÜV InterCert Certification Body

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Group of TÜV Saarland

CERTIFICATE

Annex 1 of

Certificate No. **11-PPV-0000007/01-M01-TIC**

THE PHOTOVOLTAIC MODULES WITH THE MODELS

Types extended for similarity* without need of re-testing
(according to IECEE "Retesting guideline"):

Type	Cell Number	Cell Size	Module Size	Power [W]
AC-264M/156-60*, AC-264M/156-60S*	60	156x156 mm	mono–c Si	264
AC-260M/156-60*, AC-260M/156-60S*	60	156x156 mm	mono–c Si	260
AC-255M/156-60*, AC-255M/156-60S*	60	156x156 mm	mono–c Si	255
AC-250M/156-60*, AC-250M/156-60S*	60	156x156 mm	mono–c Si	250
AC-245M/156-60*, AC-245M/156-60S*	60	156x156 mm	mono–c Si	245
AC-235M/156-60*, AC-235M/156-60S*	60	156x156 mm	mono–c Si	235
AC-230M/156-60*, AC-230M/156-60S*	60	156x156 mm	mono–c Si	230
AC-225M/156-60*, AC-225M/156-60S*	60	156x156 mm	mono–c Si	225
AC-220M/156-60*, AC-220M/156-60S*	60	156x156 mm	mono–c Si	220
AC-215M/156-60*, AC-215M/156-60S*	60	156x156 mm	mono–c Si	215
AC-210M/156-60*, AC-210M/156-60S*	60	156x156 mm	mono–c Si	210
AC-245P/156-60*, AC-245P/156-60S*	60	156x156 mm	poly–c Si	245
AC-240P/156-60*, AC-240P/156-60S*	60	156x156 mm	poly–c Si	240
AC-235P/156-60*, AC-235P/156-60S*	60	156x156 mm	poly–c Si	235
AC-230P/156-60*, AC-230P/156-60S*	60	156x156 mm	poly–c Si	230
AC-225P/156-60*, AC-225P/156-60S*	60	156x156 mm	poly–c Si	225
AC-220P/156-60*, AC-220P/156-60S*	60	156x156 mm	poly–c Si	220
AC-210P/156-60*, AC-210P/156-60S*	60	156x156 mm	poly–c Si	210
AC-205P/156-60*, AC-205P/156-60S*	60	156x156 mm	poly–c Si	205
AC-215M/156-48*, AC-215M/156-48S*	48	156x156 mm	mono–c Si	215
AC-210M/156-48*, AC-210M/156-48S*	48	156x156 mm	mono–c Si	210
AC-205M/156-48*, AC-205M/156-48S*	48	156x156 mm	mono–c Si	205
AC-200M/156-48*, AC-200M/156-48S*	48	156x156 mm	mono–c Si	200
AC-195M/156-48*, AC-195M/156-48S*	48	156x156 mm	mono–c Si	195
AC-190M/156-48*, AC-190M/156-48S*	48	156x156 mm	mono–c Si	190
AC-185M/156-48*, AC-185M/156-48S*	48	156x156 mm	mono–c Si	185
AC-180M/156-48*, AC-180M/156-48S*	48	156x156 mm	mono–c Si	180
AC-175M/156-48*, AC-175M/156-48S*	48	156x156 mm	mono–c Si	175
AC-170M/156-48*, AC-170M/156-48S*	48	156x156 mm	mono–c Si	170

Notes: (*) The manufacturer and the OEM applicant declares that these products are constructed using the same materials, components and processes as the tested type SV60-215 & SV60-240 E. Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, 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 IECEE "Retesting guideline" for similarity with differences in cell technology. This certificate is for type approval and based on voluntarily product test **without Factory Inspection.**

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TÜV InterCert
Group of TÜV Saarland

Am Bonner Bogen 2, D-53227 Bonn, 23.07.2012

Ing. R. Bolzonaro
TÜV InterCert Certification Body

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CERTIFICATE

Annex 2 of

Certificate No. **11-PPV-0000007/01-M01-TIC**

THE PHOTOVOLTAIC MODULES WITH THE MODELS

Types extended for similarity* without need of re-testing
(according to IECEE "Retesting guideline"):

Type	Cell Number	Cell Size	Module Size	Power [W]
AC-190P/156-48*, AC-190P/156-48S*	48	156x156 mm	poly–c Si	190
AC-185P/185-48*, AC-185P/185-48S*	48	156x156 mm	poly–c Si	185
AC-180P/156-48*, AC-180P/156-48S*	48	156x156 mm	poly–c Si	180
AC-175P/156-48*, AC-175P/156-48S*	48	156x156 mm	poly–c Si	175
AC-170P/156-48*, AC-170P/156-48S*	48	156x156 mm	poly–c Si	170
AC-165P/156-48*, AC-165P/156-48S*	48	156x156 mm	poly–c Si	165
AC-160M/156-36*, AC-160M/156-36S*	36	156x156 mm	mono–c Si	160
AC-155M/156-36*, AC-155M/156-36S*	36	156x156 mm	mono–c Si	155
AC-150M/156-36*, AC-150M/156-36S*	36	156x156 mm	mono–c Si	150
AC-145M/156-36*, AC-145M/156-36S*	36	156x156 mm	mono–c Si	145
AC-140M/156-36*, AC-140M/156-36S*	36	156x156 mm	mono–c Si	140
AC-135M/156-36*, AC-135M/156-36S*	36	156x156 mm	mono–c Si	135
AC-130M/156-36*, AC-130M/156-36S*	36	156x156 mm	mono–c Si	130
AC-125M/156-36*, AC-125M/156-36S*	36	156x156 mm	mono–c Si	125
AC-145P/156-36*, AC-145P/156-36S*	60	156x156 mm	poly–c Si	145
AC-140P/156-36*, AC-140P/156-36S*	60	156x156 mm	poly–c Si	140
AC-135P/156-36*, AC-135P/156-36S*	60	156x156 mm	poly–c Si	135
AC-130P/156-36*, AC-130P/156-36S*	60	156x156 mm	poly–c Si	130
AC-125P/156-36*, AC-125P/156-36S*	60	156x156 mm	poly–c Si	125
AC-120P/156-36*, AC-120P/156-36S*	60	156x156 mm	poly–c Si	120
AC-115P/156-36*, AC-115P/156-36S*	60	156x156 mm	poly–c Si	115
AC-100M/125-36*, AC-100M/25-36S*	36	125x125 mm	mono–c Si	100
AC-95M/125-36*, AC-95M/125-36S*	36	125x125 mm	mono–c Si	95
AC-90M/125-36*, AC-90M/125-36S*	36	125x125 mm	mono–c Si	90
AC-85M/125-36*, AC-85M/125-36S*	36	125x125 mm	mono–c Si	85
AC-80M/125-36*, AC-80M/125-36S*	36	125x125 mm	mono–c Si	80

Notes: (*) The manufacturer and the OEM applicant declares that these products are constructed using the same materials, components and processes as the tested type SV60-215 & SV60-240 E. Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, 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 IECEE "Retesting guideline" for similarity with differences in cell technology. This certificate is for type approval and based on voluntarily product test **without Factory Inspection.**

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