



C E R T I F I C A T E

Certificate No. 11-PPV-000063/02-TIC

WE HEREBY CERTIFY THAT THE PHOTOVOLTAIC MODULES WITH THE MODEL

SAM66/6 LamSTD, SAM66/6 STD
(Tested Type)

And with Types extended for similarity*
- See Annex -

MANUFACTURER & LICENSE HOLDER

Sunage SA
Via Motta 4, CH6828 Balerna – Swizerland

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

AS RESULT OF THE TEST IN

EA ACCREDITED LABORATORY N. A PIZ 1***
OUR APPOINTED EA ACCREDITED LABORATORY N. 0192

REPORT No. TIC-2.03.02120.1.0-2a, b, c, TIC-PS201-17326-130301
TIC-PVQ01-17326-130301

First issuing 18.10.2011

Expiring date 17.10.2016
(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 SAM66/6 LamSTD & SAM66/6 STD. SAM 66/6 XXX YYY where XXX is placeholder for "Lam" if the module is frameless and YYY is placeholder for suffixes that indicate the backsheet as follows: STD for white backsheet, TRSP for transparent backsheet, BLK/WHT for backsheet with white frontside and black backside, BLK for black backsheet and RED for brick colour backsheet. 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 certification and retest performed according to IEC 61215 "Retesting guideline". (**)The fire test (IEC 61730-2 / MST 23) was not performed. (***)The test result report which was carried out by Österreichisches Forschungs- und Prüfzentrum Arsenal GmbH is delivered by the manufacturer. This certificate is for type approval and based on voluntarily product test without Factory Inspection.



Bonn, 29.01.2015



Ing. R. Bolzonaro
Ing. R. Bolzonaro
Technical Certifier

Ing. K. Lindenblatt
Ing. K. Lindenblatt
Head of Certification Body



C E R T I F I C A T E

Annex of

Certificate No. 11-PPV-0000063/02-TIC

THE PHOTOVOLTAIC MODULES WITH THE MODELS

Tested Type	Cell Number	Cell Size [mm]	Cell Technology	Power [W]
SAM66/6 LamSTD	66	156x156	monocrystalline	270
SAM66/6 STD	66	156x156	monocrystalline	280

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

Type	Cell Number	Cell Size [mm]	Power [W]
SAM66/6 XXX YYY	66	156x156	from 240 to 305 with 5W steps
SAM60/6 XXX YYY	60	156x156	from 220 to 280 with 5W steps
SAM54/6 XXX YYY	54	156x156	from 200 to 250 with 5W steps
SAM48/6 XXX YYY	48	156x156	from 175 to 225 with 5W steps
SAM36/6 XXX YYY	36	156x156	from 130 to 170 with 5W steps

Notes: (*) The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type SAM66/6 LamSTD & SAM66/6 STD. SAM 66/6 XXX YYY where XXX is placeholder for "Lam" if the module is frameless and YYY is placeholder for suffixes that indicate the backsheet as follows: STD for white backsheet, TRSP for transparent backsheet, BLK/WHT for backsheet with white frontside and black backside, BLK for black backsheet and RED for brick colour backsheet. 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 certification and retest performed according to IEC61215 "Retesting guideline". This certificate is for type approval and based on voluntarily product test without Factory inspection.



Bonn, 29.01.2015



Ing. R. Bolzonaro
Ing. R. Bolzonaro
Technical Certifier

Ing. K. Lindenblatt
Ing. K. Lindenblatt
Head of Certification Body