



C E R T I F I C A T E

Certificate No. 11-PPV-0003109/03-TIC

**WE HEREBY CERTIFY THAT THE PHOTOVOLTAIC MODULES WITH THE MODEL
SOL 225 P, SOL 180 H, SOL 245 M, SOL 250 M, SOL 230 P
(Tested Type)**

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

**LICENSE HOLDER:
Eclipse Italia srl
C.so Venezia 3, 20121 Milano**

&

**MANUFACTURING:
Eclipse Italia srl
25070 Nozza di Vestone
Loc. Merlaro (BS)**

**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. 0192**

**REPORT No. TIC-PVQ01-17113-100572, TIC-PS201-17113-100572,
TIC-PVQ02-17113-100572, TIC-PS202-17113-100572,
TIC-PVQ01-17113-110197, TIC-PS201-17113-110197
TIC-PVQ01-17113-110202, TIC-PS201-17113-110202
TIC-PVQ01-17113-110203, TIC-PS101-17113-110203,
TIC-PS201-17113-110203**

**Expiring date 10.01.2017
(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 SOL 225 P, SOL 180 H, SOL 245 M, SOL 250 M, SOL 230. 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. This certificate is for type approval and based on voluntarily product test. The Manufacturing Inspection is conducted by TÜV INTERCERT on the base of the internal procedures.



DAT-ZE-030/09-00



Am Bonner Bogen 2, D-53227 Bonn,

11.01.2012 Dipl.-Ing. F. Sergizzarea
TUV INTERCERT Certification Body



C E R T I F I C A T E

Annex of

Certificate No. **11-PPV-0003109/03-TIC**

THE PHOTOVOLTAIC MODULES WITH THE MODELS

Tested Type	Cell Number	Cell Size	Cell Technology	Power [W]	TRF
SOL 225 P	60	6"	polycrystalline	225	17113-100572
SOL 180 H	72	5"	monocrystalline	180	17113-100572
SOL 245 M	60	6"	monocrystalline	247	17113-110197
SOL 250 M	60	6"	monocrystalline	250	17113-110202
SOL 230 P	60	6"	polycrystalline	230	17113-110203

Types extended for similarity* without need of re-testing
(according to IEC 61215 "Retesting guideline"):

Type	Cell Number	Cell Size	Module Size	Cell Technology	Power [W]
SOL XXX P*	60	6"	1663 X 998	POLY	205 - 250
SOL XXX P*	50	6"	1663 x 998	POLY	175 - 210
SOL XXX P*	48	6"	1350 X 998	POLY	165 - 200
SOL XXX P*	36	6"	1506 X 687	POLY	110 - 137,5
SOL XXX M*	60	6"	1663 X 998	MONO	225 - 270
SOL XXX M*	50	6"	1663 x 998	MONO	185 - 220
SOL XXX M*	48	6"	1350 X 998	MONO	177,5 - 214,5
SOL XXX M*	36	6"	1506 X 687	MONO	132,5 - 160
SOL XXX H*	72	5"	1598 X 798	MONO	165 - 195
SOL XXX H*	48	5"	1060 X 798	MONO	108 - 132
SOL XXX H*	36	5"	1210 X 550	MONO	81 - 99
SOL XXX H*	24	5"	1598 X 298	MONO	54 - 66
SOL XXX PF*	60	6"	1655 X 990	POLY	205 - 250
SOL XXX PF*	50	6"	1655 x 990	POLY	175 - 210
SOL XXX PF*	48	6"	1342 X 990	POLY	165 - 200
SOL XXX PF*	36	6"	1500 X 680	POLY	110 - 137,5
SOL XXX MF*	60	6"	1655 X 990	MONO	225 - 270
SOL XXX MF*	50	6"	1655 X 990	MONO	185 - 220
SOL XXX MF*	48	6"	1342 X 990	MONO	177,5 - 214,5
SOL XXX MF*	36	6"	1500 X 680	MONO	132,5 - 160
SOL XXX HF*	72	5"	1590 X 790	MONO	165 - 195
SOL XXX HF*	48	5"	1053 X 790	MONO	108 - 132
SOL XXX HF*	36	5"	1202 X 542	MONO	81 - 99
SOL XXX HF*	24	5"	1590 X 290	MONO	54 - 66

Notes: (*) The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type SOL 225 P, SOL 180 H, SOL 245 M, SOL 250 M, SOL 230. 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. This certificate is for type approval and based on voluntarily product test. The Manufacturing Inspection is conducted by TÜV INTERCERT on the base of the internal procedures.



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