



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

Certificate No. 10-PPV-0003809/04-TIC

WE HEREBY CERTIFY THAT THE PHOTOVOLTAIC MODULES WITH THE MODEL

**MBTF 85**  
(Tested Type)

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

MANUFACTURING & LICENSE HOLDER  
**MOSER BAER SOLAR LIMITED**  
(FORMERLY KNOWN AS PV TECHNOLOGIES INDIA LIMITED)  
66 B, Udyog Vihar, Greater Noida Gautam Budh Nagar , U.P. (INDIA)

IS IN COMPLIANCE WITH THE REQUIREMENTS OF

**IEC 61646 : 2008**

Thin-film 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-R1-CdO09C456002, TIC-PS101-R1-CdO09C456002  
TIC-PS202-R1-CdO09C456002 & TIC-PVC01CdO09C456005

**Expiring date 11.04.2015**

( 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 MBTF85. 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 retest performed according to IEC60904 "Retesting guideline" for similarity with model MBTF85 with differences in encapsulation system. This certificate is for type approval and based on voluntarily product test with Factory Inspection. (The Manufacturing Inspection was conducted by a TÜV INTERCERT appointed inspector on the base of agreement with the certification body TÜV INTERCERT.)



Am Bonner Bogen 2, D-53227 Bonn, 06.09.2010 Dipl.-Ing. R. Serrizzone

TÜV INTERCERT Certification Body

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

## Annex of

**Certificate No. 10-PPV-0003809/04TIC**

### THE PHOTOVOLTAIC MODULES WITH THE MODELS

Tested Type	Cell Number	Cell Size	Cell Technology	Power [W]
MBTF 85	106/6	127.2 cm <sup>2</sup>	a-Si	94.1 W

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

Type	Cell Number	Cell Size	Power [W]
1/4 size MBTF 100*	106/6	127.2 cm <sup>2</sup>	from 76 to 110
1/2 P MBTF 200*	106/12	257.2 cm <sup>2</sup>	from 155 to 220
1/2 L MBTF 200*	216/6	127.2 cm <sup>2</sup>	from 155 to 220
Full Size MBTF 400*	216/12	257.2 cm <sup>2</sup>	from 330 to 440

**Notes:** (\*) The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type MBTF85. 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 retest performed according to IEC61215 "Retesting guideline" for similarity with model MBTF85 with differences in encapsulation system. This certificate is for type approval and based on voluntarily product test with Factory Inspection. (The Manufacturing Inspection was conducted by a TÜV INTERCERT appointed inspector on the base of agreement with the certification body TÜV INTERCERT.)



Am Bonner Bogen 2, D-53227 Bonn, 06.09.2010 / Dipl.-Ing. F. Bergizadea

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