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

Certificate No. **12-PPV-0000013/01-TIC**

WE HEREBY CERTIFY THAT THE PHOTOVOLTAIC MODULES WITH THE MODEL

**PEL60 P240, PEL72 P290**  
(Tested Type)

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

**MANUFACTURING & LICENSE HOLDER**  
**Parasol Energy Limited**  
5, Mohakhali C/A (7th Floor) Dhaka, Bangladesh

**IS IN COMPLIANCE WITH THE REQUIREMENTS OF**  
**IEC 61215 : 2005**  
(Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval)

**IEC 61730-2 : 2004 + A1: 2011**  
(Photovoltaic (PV) module safety qualification)  
To be used in plants at a total voltage up to : 1000 Vdc

**AS RESULT OF THE TEST IN OUR APPOINTED LABORATORY**

**EA ACCREDITED LABORATORY N. 0951**

**REPORT No. TIC-AR12TEST014, TIC-AR12TEST015**

**Expiring date 03.04.2017**  
(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 PEL60 P240, PEL72 P290. 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. This certificate is for type approval and based on voluntarily product test without Factory Inspection.



Am Bonner Bogen 2, D-53227 Bonn,

*R. Bolzonaro*  
08.08.2012 Ing. R. Bolzonaro

TÜV INTERCERT Certification Body

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

## Annex of

**Certificate No. 12-PPV-0000013/01-TIC**

### THE PHOTOVOLTAIC MODULES WITH THE MODELS

Tested Type	Cell Number	Cell Size	Cell Technology	Power [W]
PEL60 P240	60	156 x 156	Multycrystalline	240
PEL72 P290	72	156 x 156	Multycrystalline	290

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

Type	Cell Number	Cell Size	Power [W]
PEL30PXXX*	30	78 x 52	18 - 22
PEL36PXXX*	36	78 x 52	22.5 - 27.5
PEL36PXXX*	36	78 x 78	36 - 44
PEL36PXXX*	36	156 x 52	45 - 55
PEL42PXXX*	42	156 x 52	54 - 66
PEL36PXXX*	36	156 x 78	67.5 - 82.5
PEL42PXXX*	42	156 x 78	76.5 - 93.5
PEL72PXXX*	72	156 x 52	90 - 110
PEL54PXXX*	54	156 x 78	99 - 121
PEL60PXXX*	60	156 x 78	108 - 132
PEL36PXXX*	36	156 x 156	130.5 - 159.5
PEL42PXXX*	42	156 x 156	153 - 187
PEL48PXXX*	48	156 x 156	180 - 220
PEL54PXXX*	54	156 x 156	198 - 242
PEL60PXXX*	60	156 x 156	216 - 264
PEL72PXXX*	72	156 x 156	261 - 319
PEL36PXXX*	36	78 x 22	09 - 11
PEL36PXXX*	36	79 x 31	13.5 - 16.5
PEL36PXXX*	36	156 x 22	18 - 22
PEL36PXXX*	36	156 x 32.4	27 - 33
PEL36PXXX*	36	156 x 64.50	54 - 66
PEL36PXXX*	36	156 x 97.2	81 - 99
PEL36PXXX*	36	156 x 118.7	99 - 121
PEL36PXXX*	36	156 x 140.3	117 - 143

**Notes:** (\*) The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type PEL60 P240, PEL72 P290. 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. This certificate is for type approval and based on voluntarily product test without Factory Inspection.



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