

Certificate

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Report No.: 21206418

License Holder:

Perfectenergy (Shanghai) Limited
479 Youdong Road, Xinzhuang Town
Minhang District, Shanghai 201100
P.R. China

Product:

PV Modules

Type: PEM-160/145-72M, PEM-160/150-72M
PEM-160/155-72M, PEM-160/160-72M
PEM-160/165-72M, PEM-160/170-72M
PEM-160/175-72M, PEM-160/180-72M
with monocrystalline PEC-125M solar cells

Manufacturing Plant:

Perfectenergy (Shanghai) Limited
479 Youdong Road, Xinzhuang Town
Minhang District, Shanghai 201100
P.R. China

Basis:

TÜV Spec TZE/2.572.09
"Safety Class II Test on
Photovoltaic (PV) Modules"

Factory Inspection
To document the consistent quality of
the product factory inspections are
performed periodically.



- Qualified, IEC 61215
- Safety tested,
TUV-Spec 931/2.572.9
- Periodic Inspection

Remarks:

The above mentioned PV module may be used in PV plants at a maximum system voltage (Voc at STC) of up to **745 VDC**.
The modules consist of glass / EVA / cells / PVF-PET-PVF PTD75 WW 0.17 mm foil, junction box MC or Yukita YJB, cable MC
or Yukita 4mm², connectors MC or Yukita YS-188 and aluminium frame. The module types which are listed above differ in:
electrical rating and cell efficiency and contain 72 mono silicon solar cells 125 mm x 125 mm.

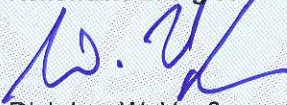
Conditions:

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or
processing may require the repetition of some of the qualification tests in order to retain type approval. The certificate is
only valid in conjunction with proof of the suitability of the modules in accordance with IEC 61215 (or similar procedure).

**The certificate has a validity of 5 years counting from the date of issue, provided that the testing basis
remains unchanged. The series production is not subject to a control and is not part of the
assessment.**

Cologne, 29 August 2007

Renewable Energies



Dipl.-Ing. W. Vaaßen