

Certificate of compliance

Product: Grid-tie Photovoltaic Inverters

Model : HPC-250HT, HPC-100HT

Use in accordance with regulations:

Grid-tie Photovoltaic Inverters with three-phase mains surveillance in accordance with DIN V VDE V0126-1-1:2006-02 for photovoltaic systems. The grid-tie photovoltaic inverter with 250KW and 100KW are specially designed products for usage of medium and/or large sized PV power plants.

Applied rules and standards :

DIN V VDE V 0126-1-1 (VDE V 0126-1-1):2006-02 and „Generator at the public low-voltage grid, 4th edition 2001, guideline for connection and parallel operation of generators in the public low-voltage grid” with VDN additions (2005) from the German Electricity Association (VDEW) and Association of network operator (VDN).

Also **Hyundai Heavy Industries Co.** acquired TÜV and CE certificates for European market.

HPC-250HT TÜV Certificate.

Certificate number: R50182008

Date of issue: 27th of May 2010

HPC-250HT CE Certificate

Registration number : AN 50182010 0001

Report number : 13603150 001

HPC-100HT TÜV Certificate

Certificate number: R50173147

Date of issue: 11th of January 2010

HPC-100HT CE Certificate

Registration number : AN 50173148 0001

Report number : 13603149 001

Hyundai Heavy Industries Co. Ltd.

1. Jeonha-dong, Dong-gu Ulsan, Korea



Declaration of Conformity

We declare that following inverter(s) comply with the according regulations of the European Community, especially with those concerning EMC in accordance with 2004/108/EC, low voltage regulation in accordance with 2006/95/EC.

Product : Grid-tie PV Inverter
Models : HPC-250HT, HPC-100HT
Manufacturer's Name : Hyundai Heavy Industries Co. Ltd
Manufacturer's Address : (1) 1. Jeonha-dong, Dong-gu Ulsan, Korea
(2) Hyundai B/D, 140-2, Kye-ding, Jongno-gu, Seoul,
Korea

The following regulations are furthermore complied with.

EMC :

Emission : DIN EN 61000-6-3 CISPR 22 : Class B

Immunity : DIN EN 61000-6-2

Safety : DIN EN50178 (VDE160) 1998-04
IEC 62103 (ed.1)

Others : Grid-tie standard:

DIN EN VDE0126-1-1 (2005.5) and following interface protection settings are included:

Parameter	Trip settings	Max. clearance time
Over Voltage	448 VAC	0.2 second
Under Voltage	360 VAC	0.2 second
Floating average voltage	356 VAC	10 minutes
Over Frequency	50.5 Hz	0.2 second
Under Frequency	49.5 Hz	0.2 second

Authorized representative established within the EU(if applicable) :

Company's Name : _____
Company's Address : _____

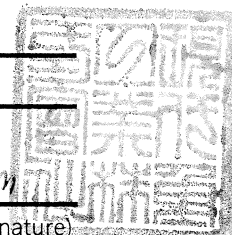
Person responsible for making this declaration

Name surname : Byoung-gwon, Min
Position/Title : Photovoltaic Inverter Ssles Team Leader

Seoul Korea
(Place)

14/7/2010
(Date)

Byoung-gwon, Min
(Company stamp and legal signature)



C E R T I F I C A T E



of Conformity
Low Voltage Directive 2006/95/EC

Registration No.: AN 50182010 0001

Report No.: 13603150 001

Holder: Hyundai Heavy Industries Co., Ltd.
1, Jeonha-dong, Dong-gu,
Ulsan 682-792
Rep. of Korea

Product: PV-Inverter

Identification: Type Designation : HPC-250HT
Serial No. : n.a. (Prototype)

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all revision of Annex I of Council Directive 2006/95/EC, in its latest amended version, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex III of the Directive.



Certification Body

Date 27.05.2010


Dipl.-Ing. D. Löffler

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

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Floating average voltage	356 VAC	10 minutes
Over Frequency	50.5 Hz	0.2 second
Under Frequency	49.5 Hz	0.2 second

Authorized representative established within the EU(if applicable) :

Company's Name : _____
Company's Address : _____

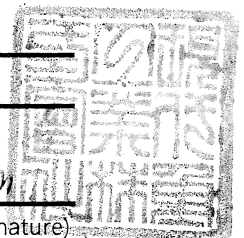
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Position/Title : Photovoltaic Inverter Ssles Team Leader

Seoul Korea
(Place)

14/7/2010
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(Company stamp and legal signature)



Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50182008

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Ihr Zeichen *Client Reference*
K.H.K.

Unser Zeichen *Our Reference*
ZKR3-KIS- 13603150 001

Ausstellungsdatum
27.05.2010

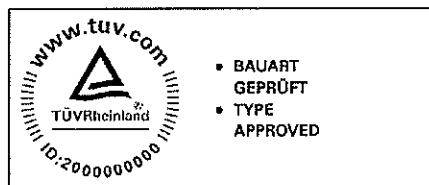
Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Hyundai Heavy Industries Co., Ltd.
1, Jeonha-dong, Dong-gu,
Ulsan 682-792
Rep. of Korea

Fertigungsstätte *Manufacturing Plant*
Hyundai Heavy Industries Co., Ltd.
1, Jeonha-dong, Dong-gu,
Ulsan 682-792
Rep. of Korea

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 50178:1997



Zertifiziertes Produkt (*Geräteidentifikation*)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Inverter

Type Designation : HPC-250HT

6

Input Rating

MPPT Range : DC 450-820V

Max. Voltage : DC 880V

Max. Current : 580A

Output Rating : AC 380V 60Hz Max.380A 250kW

Class of Equipment : Class I

IP-degree : IP20

6

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Zertifizierungsstelle



Dipl.-Ing. D. Löffler