EUROPEAN DECLARATION OF CONFORMITY



We, Global World Logistics LTD, 6 Bexley Square, Salford, M3 6BZ Manchester, The United Kingdom of Great Britain and Northern Ireland, declare under our sole responsibility that the product

AC/DC Grid-Tied Micro-Inverter with Transformer Separation AC Communication Gateway for Grid-tied Installations

models:

GF-MAC230A - GridFree Micro AC Invertor DC-AC 230V, 230W CE GF-EGATE-A - GridFree Micro AC Direct Grid Gateway AC 230V CE

to which this declaration relates is in conformity with the following standards or other normative documents

EN 55022: 2006, EN55024: 1998+A1:2000+A2:2003, EN50178: 1997

EN 61000-3-2: 2006, EN61000-3-3: 2008, EN 60950-1: 2006 EN 62109-1: 2010, IEC 62109-1: 2010, IEC 62109-2: 2011

DIN V VDE V 0126-1-1/02.26

following the provisions of

Council Directive 2004/108/EC (Dec 15, 2004) on Electromagnetic Compatibility (EMC Directive)
Council Directive 2006/95/EC (Dec 12, 2006) on Low Voltage Equipment Safety

(LVD Directive)

The Technical Construction File is maintained at the original equipment manufacturer.

The authorized representative located within the Community is:

Global World Logistics Ltd., Staples Office Centre, Sydneystraat 10, 3047 BP Rotterdam Telefoon: +316 348 659 00, Fax: +316 348 659 01, Email: info@gwl1.com

Important note for complete product installations:

The device, product, assembly or sub-assembly covered by this Declaration of Conformity must not be put into service until the complete product into which it is to be incorporated has been declared in conformity with the provisions of the applicable Directive(s).

Date of issue: January 3rd, 2013

Place of issue: Manchester, UK

James Agraefeld

James Algaefeld.

The Copy of the Test Report Results

Prüfzeichen Test Mark



Geprüft nach Tested acc. to EN 50178:1997

EN 62109-1:2010 IEC 62109-1:2010 IEC 62109-2:2011

DIN V VDE V 0126-1-1/02.06

Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)

Lizenzentgelte - Einheit License Fee - Unit

PV-Wechselrichter (Micro PV Inverter & eGate)

Type Designation : MAC250A-230-VDE (Micro PV Inverter)

: DC 50V Vmax PV Isc PV : 10.5A MPP Voltage Range : DC 20-40V Max.Input Current: 9.0A

Rated Output Voltage : AC 230V Rated Output Frequency : 50Hz Rated Output Power : 235W : 235W : 1.02A Max. Output Current Protection Class : I Degree of Protection : IP 65 Overvoltage category : OVC I : OVC III Pollution Degree : PD 3 Max.Altitude : 2000 m

Max. Ambient Temperature : -40 to +25°C(Full power) +25 to +65°C(Derating)

Type of Inverter : Isolated

Remark:

Micro PV Inverter also comply with technical requirements of test items E4,F2,G1 and G2 of DIN V VDE V 0126-5:2008-05.

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
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Tifizierungsst. Weichun Li

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Zertifi

CERTIFICATE



of Conformity Low Voltage Directive 2006/95/EC

Registration No.: AN 50185312 0001

Report No .: 15038792 001

Product:

PV-Inverter (Micro PV Inverter & eGate)

Identification:

Type Designation: MAC250A-230-VDE(Micro PV Inverter)

PIU4K-230-VDE(eGate)

Serial Number : Engineering Samples

: Issued in conjunction with TÜV Rheinland

license R 50185308 0001-0002.

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.



Date 02.12.2011

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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



Intertek Testing Services Shanghai Building No 86, 1198 Qinzhou Road (North) Caohejing Development Zone, Shanghai 200233: China Tel: 86 21 6127 8200 Fax: 86 21 6495 6263

Test Verification of Conformity

On the basis of the referenced test report(s), the sample(s) of the below product has been found to comply with the relevant harmonized standard(s) to the directive(s) listed on this verification at the time the tests were carried out.

The manufacturer may indicate compliance to only the said directives by signing a DoC himself and may affix the CE marking to products identical to the tested sample(s) if the product complies with all CE marking directives that has the product in their scope. In addition, the manufacturer shall file and keep the documentation according to the rules of the applicable directive(s) and shall consider changes of the standards as they may occur. Additional requirements, additional directives and local laws may be applicable.

Product(s) Tested

: Grid connected PV inverter

Ratings and principal characteristics

: Class I, IP65

Input: PV input operating voltage range: 20-50V DC

MPPT voltage range: 24-40V DC

Maximum operating PV input current: 10.4A

Output:

Nominal AC voltage: 230V

Rated continuous AC current: 1.02A Nominal AC frequency: 50Hz Rated continuous AC power: 235W

Model(s)

: MAC250-230-UK

Brand name

: INVOLAR

Relevant Standard(s) / Specification(s) / Directive(s)

: IEC/fprEN 62109-2: 2009 to be used in conjunction with IEC/EN 62109-1:2010

the Low Voltage Directive 2006/95/EC

Verification Issuing Office Name & : Intertek Testing Services Shanghai Address Building No.86, 1198 Qinzhou Road (North), Shanghai

200233, China

Verification Number

: SH11010199-V2

Report Number(s)

SH11010199-003

NOTE 1: This verification is part of the full test report(s) and should be read in conjunction with it.

This Verification is for the exclusive use of Intertex's client and is provided pursuant to the agreement between Intertex and its Client. Intertex is responsibility and liability are limited to the terms and conditions of the agreement. Intertex assumes no liability to any party, other than to the Client in accordance with the agreement for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertex name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertex. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material product or service is or has ever been under an intertex certification programme.

Name: Leo Shi Position: Manager Date: 2011-6-21

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