



# Product Compliance Certificate



**Certificate Number: 4003236-LF-11-158-03A**  
Certification is based on the type testing according to below named standards and production is monitored by an Initial and Annual Follow up Inspection Service.

**Notice to Authorities:**  
This certificate indicates that a third party Accredited Body has tested and verified that the products listed comply with the relevant harmonized standards to directives listed on this certificate. The manufacturer may indicate compliance to said directive by signing a Declaration of Conformity to products identical to the tested samples.

In addition, annual factory inspection has been performed for further verification of compliance. Intertek requests all whom may be concerned to allow products entry into the European market without delay or prejudice. The applicant may rightfully use this certificate to mark their products with the ETL<sup>EU</sup> mark identified above.

Intertek is a leading international provider of quality and safety services to a wide range of global and local industries. Intertek's laboratories are included in IECCE CB scheme as operational CBTL and hold several local accreditations.

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Certification Body:  
Intertek Testing Services NA Inc.  
165 Main Street, Cortland  
NY 13045

**Applicant**  
Global Solar Energy, Inc  
8500 S. Rita Road  
Tucson, AZ 85747  
USA

**Manufacturing Site**  
Global Solar Energy, Inc  
8500 S. Rita Road  
Tucson, AZ 85747  
USA

**Product Name**  
Thin-film BIPV (Building Integrated PhotoVoltaic) modules

**Trademark**  
PowerFLEX™

**Model Number(s)**  
FG-1ABC-300-D, FG-1ABC-275-D, FG-1ABC-250-D, FG-1ABC-225-D.  
FG-2ABC-100-D, FG-2ABC-90-D, FG-2ABC-82-D.  
FG-4ABC-200-D, FG-4ABC-185-D, FG-4ABC-165-D.  
Naming convention:  
FG-1/2/4(Color)(Junction Box)(Adhesive)-(Power Bin ID)-(Certification)  
Color (A):  
B – Black backsheet behind cells  
W – White backsheet behind cells  
Junction Box (B)  
T – Top mounted, TE Connectivity SOLARLOK™ Micro Junction Box  
F – Top mounted, Multi-Contact JM/FM Photovoltaic Junction Box  
B – Bottom mounted, Multi-Contact JM/FM Photovoltaic Junction Box  
Adhesive (C)  
M – ADCO Heliobond™ PVA 600BT butyl mastic  
N – No adhesive on the bottom of the module  
Certification Compliance (D)  
Blank – EN 61646, EN 61730, and UL 1703 listed  
T – EN 61646 and EN 61730 with 'Made in EU' label  
E – EN 61646 and EN 61730  
A – Unlisted

**Description**  
The products certified under the scope of this certificate are photovoltaic panels that convert light to direct current electrical power. The panels employ CIGS cells, connected in series, and encapsulated in EVA material. The encapsulated cells are covered with a polymeric superstrate and backsheet (substrate), leaving no live accessible parts. A polymeric junction box that is weather resistant is used to house the field connection means. All panels are fully assembled when shipped from the factory. Installation manual is provided.

**Test Report No**  
100150604LAX-001e

**Standards/Directives**  
EN 61730-1: Photovoltaic Module Safety Qualification - Part 1: Requirements for Construction, dated 05/2007  
EN 61730-2: Photovoltaic Module Safety Qualification - Part 2: Requirements for Testing, dated 05/2007  
EN 61646: Thin-film Terrestrial Photovoltaic Modules - Design Qualification and Type Approval, dated 08/2008

**Issued Date**  
May 16, 2011

**Validity**  
May 16, 2016  
Maximum 5 years or the validity limitation of the standards/directives used, whichever is sooner.  
If the product is to be marketed in different European countries, it must be provided with a certified plug appropriate for each country. Safety related parts of the user instructions shall be written in a language acceptable to the country where the product is to be used.

This certificate, which includes production control, is considered to constitute sufficient support for an EC Declaration of Conformity and CE marking of the product according to the Low Voltage Directive (2006/95/EC) and EMC Directive (2004/108/EC) may apply.

*William T. Stave*  
Name of Certifier

This certificate is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek 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 Certificate. Only the client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Certificate. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement. They are not for the purpose of production quality control and do not relieve the Client of their obligation in this respect.



