



Product Compliance Certificate

Certificate Number: 4003282-LF-17-158-03C

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^{EU} 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.

For further information:

Email: ETL.EU@intertek.com

Website: www.intertek.com/ETLeu

Or

Intertek Sweden
Hotline: +46 8 750 00 00
Address: Torshamnsgatan 43,
Box 1103, 164 22 KISTA, Sweden

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-2ABC-82, FG-2ABC-90, FG-2ABC-100
FG-4ABC-165, FG-4ABC-185, FG-4ABC-200
FG-1ABC-225, FG-1ABC-250, FG-1ABC-275, FG-1ABC-300

FG-S2ABC-42, FG-S2ABC-44, FG-S2ABC-46,
FG-S2ABC-48, FG-S2ABC-50, FG-S2ABC-52

FG-S4ABC-84, FG-S4ABC-88, FG-S4ABC-92,
FG-S4ABC-96, FG-S4ABC-100, FG-S4ABC-104

FG-N2ABC-65, FG-N2ABC-68, FG-N2ABC-71,
FG-N2ABC-74, FG-N2ABC-77, FG-N2ABC-80
FG-N4ABC-130, FG-N4ABC-136, FG-N4ABC-142,
FG-N4ABC-148, FG-N4ABC-154, FG-N4ABC-160

FG-M1ABC-45, FG-M1ABC-55

FG-M2ABC-90, FG-M2ABC-95, FG-M2ABC-100,
FG-M2ABC-105, FG-M2ABC-110, FG-M2ABC-115

FG-M4ABC-180, FG-M4ABC-190, FG-M4ABC-200,
FG-M4ABC-210, FG-M4ABC-220, FG-M4ABC-230

FG-M6ABC-240, FG-M6ABC-255, FG-M6ABC-270,
FG-M6ABC-285, FG-M6ABC-300, FG-M6ABC-315

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/IEC 61730-1: Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction 2013 (CON ED) 1.2
EN/IEC 61730-2: Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing 2012 (CON ED) 1.2
EN/IEC 61646: Thin-film Terrestrial Photovoltaic Modules - Design Qualification and Type Approval, dated 08/2008



Product Compliance Certificate

Certificate Number: 4003282-LF-17-158-03C

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^{EU} 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 IECEE CB scheme as operational CBTL and hold several local accreditations.

For further information:

Email: ETL.EU@intertek.com
Website: www.intertek.com/ETLeu

Or

Intertek Sweden
Hotline:+46 8 750 00 00
Address:Torshamnsgatan 43,
Box 1103, 164 22 KISTA, Sweden

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

Issued Date

October 4, 2017

Validity

October 4, 2021

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 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, is considered to constitute sufficient support for an EC Declaration of Conformity and CE marking of the product accordingly to the Low Voltage Directive 2006/95/IEC. Other EU directives may apply.



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.