



**Deliverable Report**

Deliverable No: 5.22  
Dissemination level: Confidential  
Title: Reliable product compare; Large prototype module (BIPV)

Date: 01/09/2017  
Version: FINAL  
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Grant Agreement Number: 322425  
Project Type: FP7 – ENERGY.2012.2.1.2: Demonstrations of smart multifunctional PV modules  
Project acronym: SuMMiT  
Project title: Smart large lightweight long life Multifunctional PV Module Technology for large Power Installations and Distributed Energy Generation  
Project start date: 01/12/2013  
Project website: [www.summit-project.eu](http://www.summit-project.eu)  
Technical coordination: TULiPPS ([www.tulipps.com](http://www.tulipps.com)) (NL)  
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## Executive Summary

IBC SOLAR offers complete systems for turning sunlight into electrical energy. Founded in 1982 by Physicist Udo Möhrstedt, we have become one of the leading global photovoltaic systems integrators, offering high quality photovoltaic solutions of all sizes. More than 150.000 implemented PV systems worldwide with a total capacity of more than 2.5 Gigawatt underline our leading position. From the beginning, we have focused on maximizing efficiency by developing and engineering integrated systems that fit together perfectly. Partners benefit from individual and detailed consulting and a wide range of professional services and support.

This report describes the installation of two Pilot-installations and the test "Erstmusterprüfbericht" which has been taken place at the IBC Solar AG test laboratory at Bad Staffelstein in Germany of four small COSMOS prototype back-contact modules (3x6 cells) IBC Solar will test the modules in their own climate chamber and with electroluminescence test and IV test in the Flasher.

### Pilot-installation IBC SOLAR

A real time test will be performed at the IBC-Solar test site in Schinnen, the Netherlands. To get a reliable product compare IBC Solar has a pilot installation with the new COSMOS Module on its own test site. One pilot installation has been built with 6x10 Cells modules (small) and the other is built with 12x10 Cells (Large) BIPV modules The findings, test and conclusions in "Deliverable No 5.21 Reliable product compare; Smal prototype module (BIPV)" wil also be valid for "Deliverable No 5.22 Reliable product compare; Large prototype module (BIPV)".

The installation will take place under the same conditions as the other test installations on this test site. After installation the modules shall be test for at least 3 seasons.

In this period the installation will be monitored 24 hours, day in - day out. The results will be evaluated, and compared with the results of the other modules from the test site. In this way, the specific features of the COSMOS modules should become clear.

Looking at the first results of the pilot installations it can be concluded that the COSMOS modules are performing very well and are suitable to be used for large flat roof PV systems and for BIPV (Building Integrated systems) applications.

# Acknowledgment



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 322425 (Project acronym: SUMMIT)

[http://cordis.europa.eu/fp7/cooperation/home\\_en.html](http://cordis.europa.eu/fp7/cooperation/home_en.html)

<http://ec.europa.eu>

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## Disclaimer

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