



Deliverable Report

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Executive Summary

This report provides an overview about the demonstration activities for the frameless Cosmos 60 Cells BIPV prototype module to be mounted on the existing IBC Solar Topfix or Aerofix 10 S flat roof mounting system. These system are originally designed for fitting traditional framed modules with clamps and maximized sizes of the modules.

The 60 cells frameless BIPV module is mounted on several pitched roofs to test the usability of the module and the modified Topfix or Aerofix mounting system and to gain experience with the modules.

Chapter 1 describes some general aspects of the building of the demo-projects

Chapter 2 describes the actual built of the demo-projects in several stages, with many photos.

The overall results are very positive. The deliverable of 2 – 3 field demonstrations has been achieved successfully. The mountability and the quick release mounting system are excellent innovative features for future use and maintenance and provide superior esthetic design and looks, especially for BIPV applications.

If compared to other mounting structures in the PV market the Cosmos modules mounted on the (flat roof) AeroFix10-S show at least equal quality from mechanical standpoint. The easy mounting and speed are a positive aspect.

The results of the development and the successful demonstrations, shows the market readiness for the frameless Cosmos 60 cells BIPV modules for application in pitched roofs. The BIPV mounting system will be further optimized for use in façade applications. The flat roof system based in the Aerofix system is suitable for frameless 60 cells and 120 cells lightweight flat roof modules.

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