



Deliverable Report

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Title: Zero series Junction Box (> 5,000 pcs) and definite certification, production line tools ready for mass production

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Technical coordination: TULiPPS (www.tulipps.com) (NL)
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Executive Summary

After the production of the first series of the Solned SP2-SL905 junction box in task 2.5B, we start up the activities for the zero series production. We will start developing the multi cavity moulding tools for production at our chosen supplier Veko Technology in Tilburg. Veko Technology has two specialisations; one part of the company is specialised in mould design and production of injection moulds and stamping production tooling and the other part is specialised in injection moulding production and the stamping of all kinds of contact materials. Because they have both disciplines in-house, they can make tooling that perfectly matches the production equipment of their own facility.

Veko will be responsible for the injection mould production and produces all plastic components for the injection moulds. Veko will also produce the stamping tooling and the stamped contacts for the solar module connection. The assembly of the Solned junction boxes will be done at the company Assembly Partner in Dordrecht. This company is specialised in the production of electronic components and assembly of printed circuit board materials and is also well equipped for the assembly job of our Solned junction box SP2-SL905. They have all the disciplines of the production of the PCBs and the assembly of the complete junction box in-house with a lot of experienced personnel.

We started up the certification of the Solned junction box SP2-SL905 as a separate certification according to the IEC 62790; Junction boxes for Photovoltaic modules. We do this because we want our junction box ready for the market, so other customers can easily use our Solned junction box SP2-SL905 on their solar modules without testing the junction box part during the retesting guidelines. The testing of the junction boxes according to the IEC 62790 is done by Kiwa The Netherlands, they have the accreditation for testing the IEC 62790 norm. Kiwa Italy does not do the testing anymore because they lost the accreditation in 2015 due to internal reorganisations. The Solned SP2-SL905 junction box is passed for the IEC 62790 testing after solving some small details, we received the IEC 62790 declaration on March 1, 2018. All the other module related tests as described in task 2.6B will be applied to the total solar modules of the SUMMIT project, we are not actively involved in this.

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http://cordis.europa.eu/fp7/cooperation/home_en.html

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