



Deliverable Report

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Executive Summary

This POD describes the considerations which are taken into account to establish the requirements of the Summit-FP7 module level power management electronics .

The development is split up in three parts; the mechanical / contact part, the module electronics/ housing and the energy/ data network.

The large Summit solar module can be used in off-grid and on-grid systems . A 380VDC-bus is selected to transport the generated power. No country specific (AC grid) legislation is necessary . A standard inverter can be used to supply the power to the mains (on-grid) or act as a grid forming device. (off-grid with a battery).

By the size and application of the PV module in the built environment (frequently horizontal /vertical and random type of shades) a special sub string architecture will be used and also multiple MPPT's. (Maximum power point trackers) per module.

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

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Fh-ICT		Fraunhofer-gesellschaft zur foerderung der angewandten forschung E.V. (DLD)
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