

EV12AS350**Power-up sequencing****Errata for datasheet EV12AS350ATP_1160GX_Apr 2017**

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Purpose of the document

This Errata Sheet describes product specification deviation related to 1160 datasheet version G and prior, concerning power-up sequencing aspects on EV12AS350A component. Related documents are available on the product webpage at the following URL: <https://www.e2v.com/products/semiconductors/adc/ev12as350/>.

For further assistance, please contact Hotline-BDC@teledyne-e2v.com.

Background

In datasheet Revision G, it is mentioned that the power supplies of the device can be switched-on in any order.

Issue description

During the characterization phase of the ADC, all power supplies sequences are tested.

In some cases, the device does not start properly; it shows wrong consumption currents and the SPI is not functional.

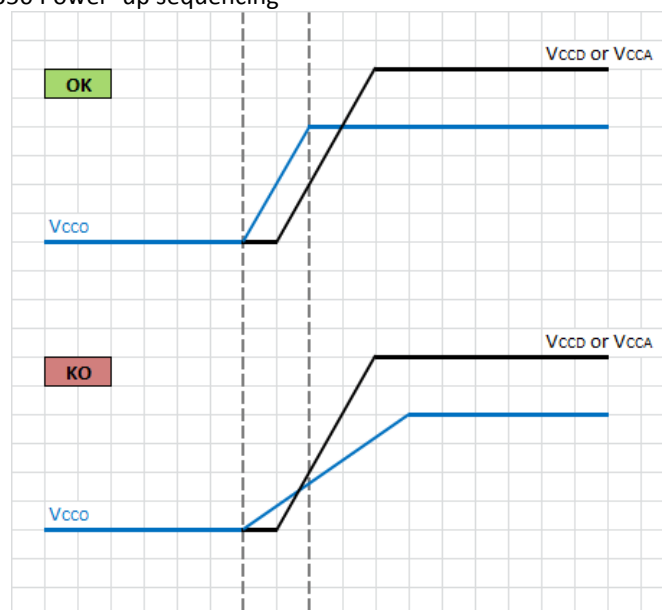
Workaround

To avoid such power up issues, V_{CC0} must be switched-on first and must never be overrun by the two other power supplies before its establishment. Once V_{CC0} has reached its steady state value, there is no constraint on V_{CCA} and V_{CCD} power-up. In these conditions, the device always starts properly.

Figure 1 illustrates two cases of power-up sequencing:

- OK: the ADC starts properly
- KO: the ADC does not start properly

Figure 1. EV12AS350 Power-up sequencing



The information contained in this document should be used in addition to the datasheet of the EV12AS350.