

TECHNICAL SPECIFICATION



Utility-interconnected photovoltaic inverters – Test procedure for under voltage ride-through measurements



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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Utility-interconnected photovoltaic inverters – Test procedure for under voltage ride-through measurements

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

UTILITY-INTERCONNECTED PHOTOVOLTAIC INVERTERS – TEST PROCEDURE FOR UNDER VOLTAGE RIDE-THROUGH MEASUREMENTS

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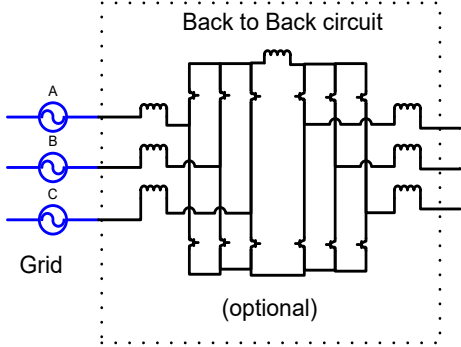
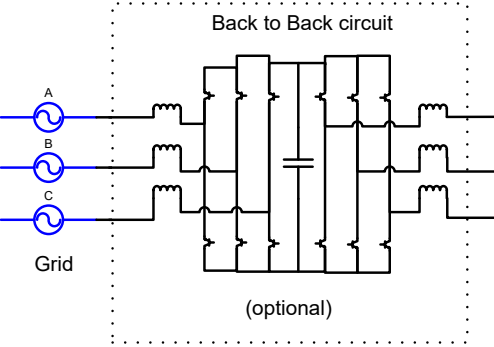
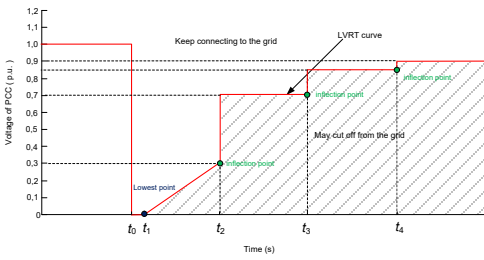
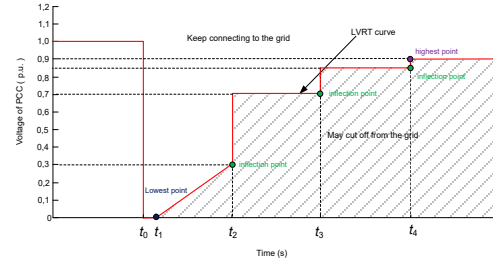
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IEC TS 62910, which is a technical specification, has been prepared by IEC technical committee 82: Solar photovoltaic energy systems.

This second edition cancels and replaces the first edition issued in 2015, and constitutes a technical revision.

It remains a TS because it is limited to providing recommended practices for UVRT testing in the context of non-uniform grid-codes lacking international consensus, and the rapid development of test technology in recent years.

The main technical changes with regard to the previous edition are as follows:

Clause	Previous edition	Present edition
3.1.12	the voltage support of EUT in accordance with the voltage drops. The K-factor is to be specified by the EUT manufacturer	the K-factor is to be supplied by the EUT manufacturer meeting additional requirements imposed by national standards and/or local codes
Figure 2		
4.3.4	The test circuit essentially comprises a voltage source with a low internal resistance combined with broadband amplifiers.....	The test circuit essentially comprises a voltage source with a low internal resistance combined optionally with broadband amplifiers.....
Table 3	d The test should be carried out under specified K-factor provided by local manufacture.	d The test should be carried out under specified K-factor provided by manufacture meeting additional requirements imposed by national standards and/or local codes.
Figure 4		
5.2	NOTE The example shows two types of points on the UVRT curve: the lowest point and the inflection point. Tests must be carried out at both types of points	The example shows three types of points on the UVRT curve: the highest point, the lowest point and the inflection point. Tests shall be carried out at above types of points.
5.3.1	Prior to the fault simulation tests, the EUT should run in normal operating mode. The selected UVRT curve should be used to identify voltage drop points, including the lowest point and the inflection point,	Prior to the fault simulation tests, the EUT should run in normal operating mode. The selected UVRT curve should be used to identify voltage drop points, including the highest point, the lowest point and the inflection point,

The text of this Technical Specification is based on the following documents:

Draft TS	Report on voting
82/1607/DTS	82/1640A/RVDTS

Full information on the voting for the approval of this Technical Specification can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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