

Technical data required to be transmitted in order to check up the compliance with technical requirements from ANRE Order 30/17.05.2013 “*Technical conditions for connection to electricity networks of public interest for photovoltaic power parks*”, with later amendments and additions

Compliance with technical requirements stipulated in ANRE Order 30/17.05.2013 is verified by inverter types. In order to provide check-up to an inverter type that is not found in ANNEX 1, the following documents should be submitted to UNO – DEN:

1. Check-up demand containing: name of the company requesting check-up, including the fax number, inverter name & type, the objective where the inverter will be installed (total installed capacity);
2. Full technical data of the inverter;
3. Compliance certificates issued by a certification organisation with European licence, accompanied by results from compliance tests used in order to issue the compliance certificate.

Technical data specified in 2÷3 should prove, for all inverter types found in electricity generating installations of installed capacity up to 400 kW, they comply at least with the following requirements from ANRE Order 30/17.05.2013:

- The resulting electricity generating installation should fully comply with the requirements from the Technical Code of the Electricity Transmission Grid approved by Order 20/2004 of the President of the National Regulatory Authority in the Energy Domain, with those from the Technical Code of electricity distribution networks approved by Order 128/2008 of the President of the National Regulatory Authority in the Energy Domain and with those from this technical norm;
- Component inverters should be capable to stay connected to the network and operate uninterruptedly, with no time limit in the frequency range (47.5÷52) Hz;
- The owner of the electricity generating installation is obliged to provide protection of photovoltaic panels, component inverters and auxiliary installations against damages that can be caused by defects in his own installations or by the electricity network impact over such installations upon proper operation of tripping protections of the electricity generating installation or upon network incidents (short-circuits with and without grounding, network protections tripping, transient surges etc.), as well as whenever exceptional/abnormal operational conditions occur;
- The connection solution for inverters should not enable island operation of the electricity generating installation; therefore it should include protections tripping the installation in case such an operational regime occurs.