

Technical documentation (Directive 2014/30/EU EMC)

The technical documentation accompanying the application allows to evaluate the device conformity with the applicable requirements and include an adequate **analysis and assessment of the risk(s)**. The technical documentation shall specify the applicable requirements and cover, as far as relevant for the assessment, design, manufacture and operation of the device. The technical documentation shall contain, where applicable, at least the following elements:

- (A) a general description of the device - the drawings, diagrams, instructions, etc., included in the technical documentation, containing the necessary information and evidence for the fulfillment of the essential requirements, a description of the construction - the batteries, devices for powering the batteries during operation, announced data, frequency characteristics, operating modes, automatic programs, thermostats, switches, starters, semiconductor regulators, electronic components, grounding, screens, power outlets for constant and alternating voltage, other inputs and outputs (control lines, load lines, signal terminals), categories, power cord lengths, filters, defined performance criteria, frequency emission sources, short-term interference, environment in which the equipment will work (industrial or light industrial, household), installation instructions, critical operating modes, magnetic field susceptible devices, operating modes in which the largest radiations are generated in the bandwidth to be tested, system configuration which is the representative of the group of devices, parameters of the operating environment (temperature, humidity, atmospheric pressure);
- B) design and manufacturing drawings and diagrams of components, sub-assemblies, circuits, etc.;
- C) the descriptions and explanations necessary for the understanding of those drawings and schemes and the operation of the device;
- D) a list of the harmonized standards applied in full or in part, the data for which have been published in the Official Journal of the European Union and, where these standards have not been applied - descriptions of the decisions adopted to meet the essential requirements, incl. a list of the other relevant technical specifications attached. In the case of partly applied harmonized standards, the technical documentation shall specify the parts which have been applied;
- e) results of design calculations, examinations carried out, etc. - analysis of results of tests carried out and the test reports, statistical results of the tests;
- F) test reports.

Where harmonized European standards are not applied, in addition:

- evidence of the technical solutions taken and the measures taken to comply with the essential requirements - in terms of design, radiation limits, performance criteria;
- own specification for acceptable level of EMC characteristics that meet the requirements of radiation and sustainability according to the environment in which the device will operate (BDS EN 61000-6-1, BDS EN 61000-6-2, BDS EN 61000-6-3, BDS EN 61000-6-4, 61000-