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Title: Implementation of converter systems for aircraft Ground Power Units

Abstract:

Two converter systems have been implemented in aircraft for ground power units (GPU) powered by the 50 Hz/400 V network and the 400 Hz/200 V network. Both systems are characterized by high quality output voltage, significantly exceeding the requirements specified in the ISO 6858 standard. The presented functional tests results confirm also excellent dynamic performance of the converter systems during abrupt load changes, including overload conditions.

Keywords:

GPU, AC/DC/AC converter, isolated converter, aircraft