

Software Development for Power Converter

Abstract

High Voltage Power Supplies (HVPS) are widely used in fusion research mainly for particle acceleration and Heating-Current drive system. HVPS is being formed by series connected multiple number of Power Converters. Wide variety of converters are being used viz. Buck, Buck-Boost, Chock. A present project intends to develop software for Active Front End converter. A MATLAB Simulink model and algorithm shall be provided where outcome should be software demonstration. A major object of program is A/D conversion of line voltage and current, Fast Fourier Transform, Matrix manipulations and Lookup tables. Hardware and other supports are provided while TI TMS320F28335 evaluation board is available.

Eligibility: Only students of Electronics & Communication branches can submit their application at

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And

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