

## عنوان مقاله:

Using Static Frequency Inverters For Distribution Transformer Tests

## محل انتشار:

بیست و دومین کنفرانس بین المللی برق (سال: 1386)

تعداد صفحات اصل مقاله: 7

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## خلاصه مقاله:

In high voltage systems, usual method of making a wave with a frequency over 50 Hz that has high power is interconnecting a motor and a generator with nominal frequency over 50Hz, like 100Hz or 150Hz; but for distribution transformers' routine test, it is not economical to construct an experimental setup with a motor and generator that would be expensive. Nowadays with power electronics instruments some cheap solutions are available, like power frequency inverters that transmit power from the 50Hz network to over 50Hz sinusoidal wave as output. This paper eviews a procedure of design and construction a test circuit for induced voltage tests, loss measurements and applied voltage tests based according to IEC 60076-3, based on a three phase power frequency inverter works at a frequency range 0...200 Hz. This system strongly needs a compensation unit, adaptation transformer, and a HV passive filter for the induced voltage tests; also with this circuit partial discharge easurements are possible. There are no particular inductors have been designed for filtering the harmonics, therefore experimental equipments and test object have .been used to perform an appropriate filter

## کلمات کلیدی:

(Static frequency inverter, filter, Induced voltage test, Total harmonic distortion (THD

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/31837>

