

Static Converters for power network conditioning



Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique

In brief

- > **Amety's Code:** N9EE21B
- > **Open to exchange students:** Yes

Presentation

Objectives

Understand the functions of a voltage inverter connected to an electrical power distribution network. Know how to size a voltage inverter and its filtering components in order to control active and reactive power exchanges or to provide active harmonic filtering.

Description

1.1.1. Res. Energy conditioning

- Reminders about electrical networks: voltage and reactive power regulation.
- Functions of the voltage inverter connected to a network: control and sizing
- Reactive power compensators based on voltage inverters
- Electrical energy quality - Active filtering.

1.1.2. Energy conditioning

CM application project: "converters for energy network conditioning."