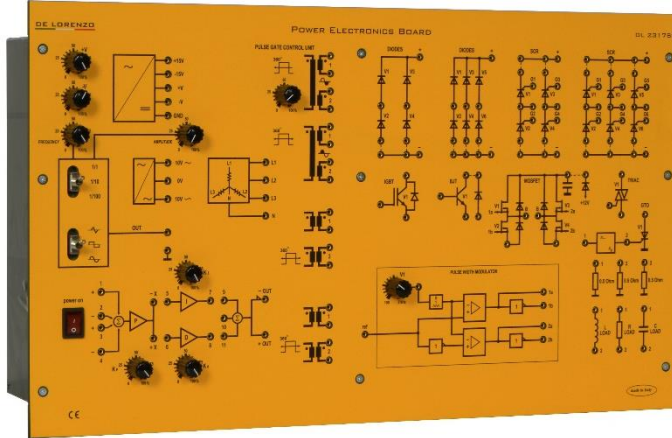




## POWER ELECTRONICS BOARD DL 2317SR



This board allows the study of several power electronics circuits, as detailed here under.

### Technical Features

The following components are available on the board:

- Diodes for circuit M1U, M2U, M3U, M6U
- SCR for circuit M1C, M2C, M3C, M6C
- H bridge with MOSFET
- Pulse generator for SCR control
- Generator for H bridge control (PWM)
- Function Generator
- Three-phase generator (12 Vpp)
- Single-phase source (12 Vpp)

Built-in power supply.

### Experiments - DL 2317SR

- Single-phase uncontrolled rectifier M1U and B2U
- Single-phase controlled rectifier M1C and B2C
- Three-phase, single wave, uncontrolled rectifier B3U
- Three-phase, single wave, controlled rectifier B3C
- Three-phase, full wave, uncontrolled rectifier B6U
- Three-phase, full wave, controlled rectifier B6C
- Pulse Width Modulation (PWM) circuit to control direct current
- PWM to control a motor with a H bridge
- PWM on H bridge to understand the principle of inverter

### Experiments ON THE DC SUPPLY

- Basic pulse width modulation (PWM) circuits
- PWM with H-circuit, DC-evaluated
- PWM with H-circuit, sine-evaluated

### Experiments WITH THE GTO (GATE-TURN-OFF)

- Firing pulse conditioning for the GTO
- The GTO as a DC actuator