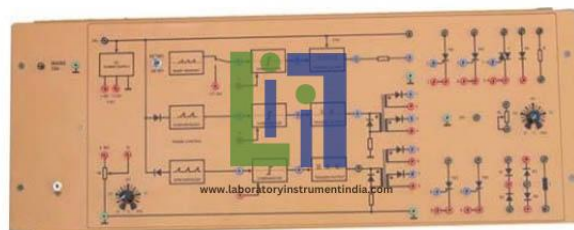




Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Power And Control Board

**Product Code :**  
LBNY-0005-124000100



#### **Description :**

It allows the autonomous study of the thyristors in the main single phase bridge circuit configuration (semi and totally controlled) and in the ac/ac converters as well as the study of the triac in the control of the alternating voltage and in the controlled rectification.

Furthermore, there is a potentiometer for the manual control of the devices activation. The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual. The power section includes: 4 thyristors, 1 triac, 4 diodes, 1 flywheel diode and 1 ohmic inductive load. The control section allows the realization of: proportional control, on off control or phase control, both on the positive and negative semi wave.

Power supply: 24Vac, 1A, 50/60Hz

#### **Technical Specification :**

##### **Experiments:**

Half controlled single phase rectifier bridge with and without flywheel diode

Fully controlled single phase Rectifier Bridge

Control of full wave rectification with ohmic load and with ohmic inductive load

SCR control with alternating voltage synchronous and in phase with the anode voltage

Half wave rectifiers with ohmic inductive load with and without flywheel diode

Half controlled single phase rectifier bridge

SCR control with alternating voltage synchronous and in phase with the anode voltage supplying the gate with and without flywheel diode

Mains alternating voltage regulation

Pulse train control

---

Half wave ac/ac converter  
Full •wave ac/ac converter.



**Laboratory Instrument India**