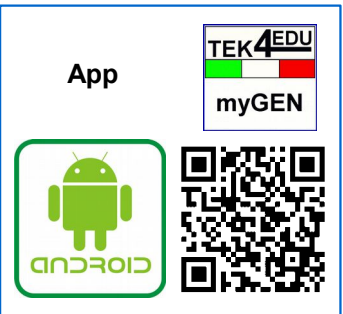


# Power Supply & Function Generator mod.T4E-BOX-04



The **Power Supply & Function Generator unit mod.T4E-BOX-04** is a modern and compact laboratory instrument that integrates three instruments:

- a powerful adjustable **DC** power supply
- a powerful adjustable **AC** power supply (50Hz)
- a function generator with sinusoidal and square waveforms

At switching on the unit is ready for use with the following functions:

- **DC power supply:** it supplies a constant voltage with continuously adjustable amplitude in the range **0-12Vdc**. The two-color display shows the output voltage and the current supplied by the power supply to the load.
- **AC power supply:** it supplies a sinusoidal waveform (frequency **50Hz**) with continuously adjustable amplitude in the range **0-16Vpp**
- **Signal generator** of square waveform with fixed amplitude 0-5V (TTL) and 50Hz frequency

Subsequently, using the **myGEN** App installed on any Android smartphone or tablet, you can change the 50Hz frequency (of the AC power supply and the Signal generator), setting it precisely, in the range **0.1Hz-200kHz**, changing the unit into a versatile function generator.

## TECHNICAL SPECIFICATIONS

### DC power supply:

- amplitude: **0-12Vdc**, adjustable with potentiometer
- current: **3A** (max)
- digital display: it shows output voltage and current supplied

### AC power supply / Sinusoidal waveform generator:

- amplitude: **0-16Vpp**, adjustable with potentiometer
- current: **2A** (max)
- load power: **8W**
- frequency: 1Hz to 200kHz (-3dB)
- load: high impedance (HiZ) to 4 Ohm (min)

### Square waveform generator:

- amplitude: 5V TTL
- frequency: 0.1Hz to 200kHz, HiZ load

### Included accessories:

- N.2 1m safety cables 4mm (red and black)
- **myGEN** App for Android device (**not included**)

### Electronics protections:

The unit is protected in case of extended use with very low impedance loads and high supplied currents.

In this condition of use, they can be activated, in sequence:

1. cooling fans to improve heat dissipation
2. audible alarm to indicate high radiator temperature
3. power supply disconnection of the power sections

### Power supply:

- the unit is powered by an external power supply (100-240VAC 50/60Hz, **included**)

**Dimensions and weight:** 165x115x60 mm – 1.5kg

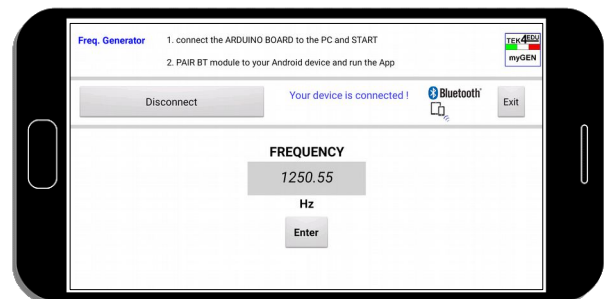
### Option:

The unit is ideal for use with the **Basic Electricity Board mod.T4E-BCB-01** to allow direct current and alternating current experiments.

The amplitudes and frequencies of the generated signals are perfectly compatible with the board, allowing the totality of the proposed exercises in complete safety, without the possibility of damaging the instrument or the board.



Basic Electricity Board mod.T4E-BCB-01



App myGEN