

# High Voltage Power Supply

EHT-11-C1

SES Instruments Pvt Ltd.

- **Continuously variable**
- **Electronically regulated**
- **Fully solid state circuit**
- **Low power consumption**
- **Computer connectivity through SES-CAMM**



## Introduction

Power supply, EHT-11 principle of operation is entirely different from conventional supplies, and thereby eliminating many drawbacks; bulky high voltage transformer, need of high voltage components and excessive heating of components etc., associated with them. This power supply consists of a stable power oscillator whose output is controlled by an input signal. The output of this oscillator is boosted with the help of a step-up transformer and then rectified and filtered. A portion of this output is compared with a high stability, temperature compensated reference and the error signal is used in the feedback path to control the oscillator's output. There is a built-in protection against accidental overloading.

For high reliability, compactness and ruggedness, integrated circuits are extensively used along with a few discrete silicon devices. The components are mounted in a glass epoxy printed circuit card.

## SES-CAMM Compatible

This unit can also be connected to a PC through an interface module SES-CAMM to record voltage values. SES-CAMM is a computer aided module for connecting multiple subunits of experiments such as Two Probe Setup to same interface on a computer. This feature is particularly useful in making this model compatible with computerized versions of complete experiments from our company.

## Applications

EHT-11 is designed to meet the power requirements of a broad range of radiation detectors: G.M. Counters, Ionization Chambers, Scintillation Detectors, Photomultiplier Tubes and any application where a high voltage source with high degree of regulation and stability is required.

## Specifications

<b>Output</b>	0-1500V continuously adjustable
<b>Current</b>	1mA (max.)
<b>Polarity</b>	+ve or -ve, as required
<b>Regulation</b>	±0.05% for 0 to 1mA load
<b>Stabilization</b>	±0.02% for ±10% mains variation
<b>Display</b>	3½ digit, 7 segment LED DPM
<b>Connection</b>	Output through a TNC connector on the front panel
<b>Protection</b>	Fully protected against overload and short circuit by current limiting technique
<b>Interfacing</b>	Through SES-CAMM module
<b>Software</b>	Software provided with SES-CAMM is Window compatible
<b>Power requirements</b>	220V ±10%, 50Hz
<b>Weight</b>	5Kg
<b>Dimensions</b>	240mm X 390mm X 130mm

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