

EHT-11

High Voltage Power Supply

- 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.

Applications

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

SES-CAMM Compatible (In EHT-11-C1 only)

This unit can also be connected to a PC through an interface module SE5-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.

Specifications

Output	: 0-1500V continuously adjustable
Current	: 1mA (max.)
Polarity	: +ve or -ve, as required
Regulation	: $\pm 0.05\%$ for 0 to 1mA load
Stabilization	: $\pm 0.02\%$ for $\pm 10\%$ mains variation
Display	: 3½ digit, 7 segment LED DPM
Connection	: Output through a TNC connector on the front panel
Protection	: Fully protected against overload and short circuit by current limiting technique
Interfacing	: Through SES-CAMM module (In EHT-11-C1 model only)
Software	: Software provided with SES-CAMM is Window compatible (In EHT-11-C1 model only)
Power requirements	: 220V $\pm 10\%$, 50Hz
Weight	: 5Kg
Dimensions	: 240mm X 390mm X 130mm