



Specifications sheet: Bipolar Current Supply

Introduction

The Bipolar Current Source is intended to use with dipole magnets and focussing coils in the beam line of the DrX Photogun. The product offers an easy to use, low noise, and stable current source, programmable over USB. The Current Supply is switchable from ± 1 A max (for steering magnets) to ± 2 A max (for focussing magnets).

Applications

- Driver for DrX Steering coils
- Driver for DrX Focussing coils

Features

- High resolution
- Linear trough zero
- Stable

General

Operating temperature : 15 – 25°C

Electric

AC Input : 100 – 240V
 Fuses : 4AT
 Max output current : ±2 A
 Max output voltage : 6 V
 Output connector : Speakon
 Full scale error : 0.7% FSR
 Stability : $< 2 \times 10^{-5} / ^\circ\text{C}$
 Non linearity (DNL) : -0.5 – +0.6 LSB
 Resolution : 15 bits
 Settling time : 20 ms (resistive load) or 30 ms (steering/focussing coil)
 USB : optically isolated

Dimensions

Size : 19" × 2U × 500 mm
 Weight : ~ 7 kg

Technical drawing

