

# PI Series

## Rack-mounted single output ionic pump controller



- ◇ Universal 85-264VAC input and/or back-up battery with integrated charger
- ◇ Output voltages and power: depending on the model 6kV and 6 or 60 Watts presentation as a table or rack model



### General Description

◇ These power supplies are designed to supply and control ionic pumps of various types and capacities. The model presented below is a model that delivers a power of 60 Watts for output voltages, adjustable by potentiometer on the front panel, ranging from 0 to 6 kV. These power supplies have current limiting systems that prevent overheating during high pressure operation (e. g. starting or extended operation). They have a positive or negative voltage output. The indication of the voltage by means of a 2,000 point display makes it possible to monitor the operation of the pump and the reading of the current by the same means (but at 20,000 points) and to know the pressure in the pump. These power supplies can also be equipped with numerous optional devices, a non-exhaustive list of which is given below.

Parameters	Specifications
Input voltage $V_{in}$	230Vac 50 Hz
Control	Mains and HV ON/OFF switch/indicators
Output voltage $v_{out}$	From 0V to 6000 V via potentiometer
Output current $i_{out}$	10mA
Polarity	Positive or negative, selectable by straps inside the unit
Maximum power	60 W
Load regulation	$\pm 1\%$ of full output voltage over specified output current range
Line regulation	$\pm 5\%$ of full output voltage for no load to full load
Residual ripple	2% peak-to-peak at full load
Safeguards	<ol style="list-style-type: none"><li>1. Arc and short circuit protection</li><li>2. Protection against overload</li><li>3. High voltage stop on mains failure</li><li>4. Mains fuse</li></ol>



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Parameters	Specifications
Mains input	IEC 320 type AC connector
HV output	Via front coaxial connector
Current monitoring	1V/mA zero compensated Via front coaxial connector for BR2 plug provided

### Mechanical configuration

Chassis	Rack mountable unit with handle
Dimensions	1/3 standard rack 19» 3 U H : 130 mm x Larg. : 161 mm X prof. : 220 mm
Weight	2,8 kg

#### Options:

The characteristics of this power supply can be adapted over a wide range of specifications such as:

- **Analog voltage programming adjustment by means of an external control input** (point of setpoint) via a 9-pin D-sub input and by change over switch on the front panel for the choice between this control and potentiometer
- **Current reading with automatic range change:** resolution 1 $\mu$ A and 100nA - Input voltage: 24 V
- **Automatic conversion of current reading in pressures**
- **Delay of the disconnection then high voltage shut-down**



This High Voltage power supply satisfies the requirements of EC Directives Safety.

Non contractual document.

All specifications are subject to change without notice.

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