

# Multiple Output High Voltage Power Supply HCV 49M - 10000

Type:



**F.u.G. Elektronik GmbH**

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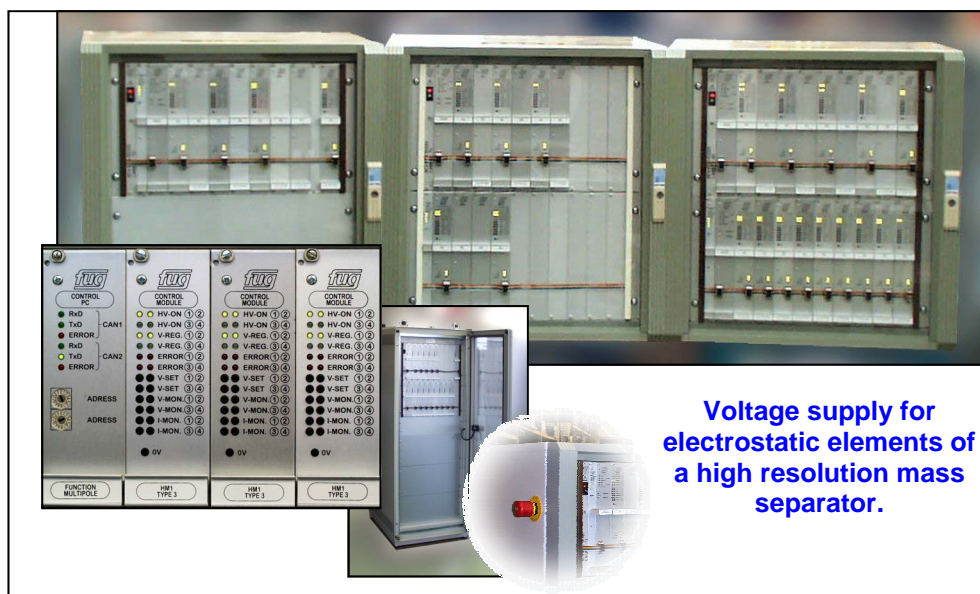
**Low and High Voltage-  
Power Supplies**

**DIN EN ISO 9001**

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**Voltage supply for  
electrostatic elements of  
a high resolution mass  
separator.**

## Features

- 172 bipolar high voltage sources in 5 racks;
- Voltage sources from  $\pm 150V$  to  $\pm 7,5kV$ ;
- Regulation stability, temperature coefficient, stability with changes of mains supply and residual ripple down to 10ppm;
- Two of the racks provided for operation on a 250kV high voltage platform;
- All sources individually controllable by a special CAN- bus- interface with 16 bit resolution;
- Racks, floating on high voltage, controlled via fibre-optical cable;
- Indication of all operating modes and control states by LED at the front plate;
- Safety shut-down in case of over temperature or opening of the interlock loop;

## Technical data

Input voltage:	230V $\pm$ 10%, 40 -70Hz
Output voltages:	86x $\pm$ 150V
	12x $\pm$ 250V
	48x $\pm$ 2000V
	26x $\pm$ 7500V

Regulation stability, adjustment accuracy and residual ripple especially defined for each single voltage source: between 10ppm and 500ppm

Resolution of CAN-BUS: 16 bit

Safety class:	IP20
Environment temperature:	0°C - 40°C
Relative humidity:	80% for temperature less 31°C, then linear decreasing to 50% at 40°C
Operation height:	up to 2000m

## Indicators

LED for HV ON, voltage regulation, fault signalisation and CAN- bus

## Mechanical Design

Case:	2x 19" rack 31 HU, depth 650 mm, for isolated construction
	3x 19" rack 12 HU. depth 573 mm, dust-proof construction

## Application

Voltage supply for electrostatic elements of a high resolution mass separator:  
30 steerers, 74 quadrupoles and 68 multipoles.

March 04