

Dual Power Supply for two pole x-ray tube HCV 4200M - 400000

Type:



Special Features

Two symmetrical outputs: 0 to +200kV and 0 to -200kV

Auxiliary output for anode heater, floating on negative output potential



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**Low and High Voltage
Power Supplies**

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External Control

All control elements are located at a dedicated remote control unit which is connected to the power supply unit by cable.

Voltage adjustment by means of coarse/fine 10 turn potentiometers, 5 digit display.

Current adjustment by means of 10 turn potentiometer, 3 digit display.

Filament current can be adjusted directly or in emission current regulation mode (both by means of 10-turn potentiometer), 3 digit display.

Special internal and external interlock system.

Indicator LEDs for voltage regulation, current regulation or power limitation for both outputs separately.

Indicator LEDs for filament current or emission current regulation.

All functions also available via IEEE488 computer interface.

Technical data

Mains: 3x 400V $\pm 10\%$, 47 - 63 Hz

Output1: 0 - 200kV, 0 - 40mA, Power limited to 2,1kW

Polarity: positive

Output2: 0 - 200kV, 0 - 40mA, Power limited to 2,1kW

Polarity: negative

Filament output: 11V, 0 - 5,5A (floating on high voltage potential of output2)

Two external voltage dividers are included for calibration purposes.

Mechanical Design

Case: Oil filled high voltage tank with power part on the top
2600mm x 900mm x 1500mm (WxDxH)

Weight: approx. 1800 kg

Dedicated remote control unit as 19" rack with 3 units high.

Application

The power supply is used to drive a special two pole x-ray tube.

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