

Multiple High Voltage Power Supply HCV 30,5M-20000

Type:



F.u.G. Elektronik GmbH

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**Low and High Voltage
Power Supplies**

DIN EN ISO 9001

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Special Features

High voltage power supply for scanning electron microscope (SEM)
with pulsed electron beam

Application

Test of Thin Film Transistors (TFT) of LCD glass sheets by means of electron beam

External control

Customer specific control unit for all adjustable or readable values

Technical Data

Mains: 230 V \pm 10%, 47 - 53 Hz

Outputs

Primary energy: 0 - 20 kV / 0 - 300 μ A
or
0 - 2500V / 0 - 300 μ A (changeable by means of connectors)

Voltage stability: <10ppm / 8h ; <10ppm / with pulsed load

Tc: <10ppm / K

Residual ripple: <10ppm p - p

Grid voltage: -100V ... - 700V / 100 μ A

Auxiliary voltage: 18 V / 750 mA, regulated, floating at 20 kV

Filament supply: max. 10 V / 0 - 2 A floating at 20 kV , current regulated

Environment temperature: 0 to 40°C

Design

Integrated system with floating "hotbox" in 19" rack 9 U