

Power Supply for ageing and testing of TWT HCV 12162M-7000

Type:



F.u.G. Elektronik GmbH

Florianstr. 2
D - 83024 Rosenheim

**Low and High Voltage
Power Supplies**

DIN EN ISO 9001

Tel. : +49(0)8031 2851-0
Fax : +49(0)8031 81099

eMail:
info@fug-elektronik.de

Internet:
<http://www.fug-elektronik.de>



Special Features

Multiple power supply with:
4 quadrants anode supply,
2 x Bias/ Focus switch-
selectable by HV pulse switches
with max. 1kHz,
2 x collector supply (prepared
for up to 4)
Filament, Helix, Wehnelt and
Ion pump supply.

High voltage earthing switch for
grounding all high voltage out-
puts simultaneously.



Control

Mains switch, Emergency OFF switch and high voltage earthing switch have to be operated locally, all other functions via special analog interface.

Displays

Triple warning lamp on the top for signalisation of status "Mains ON", "Ready" and "High Voltage ON".
Further signal lamps on the front plate for "Trip" and "Overcurrent" of the sources and for "Pulse ON" and "Interlock".

External Control

Customer specific interface for control of all output voltages and functions and for read back of values by an SPS.

Technical data

Mains:	3x 400V $\pm 10\%$, 47 - 63 Hz
Anode:	-3kV ... +2kV, max. ± 2 mA, 4 quadrant operation
Helix:	-7kV ... -3kV, max. 40mA
Collector 1 to 4:	1kV ... 5,5kV, max. 450mA
Focus, Low Bias:	-100V ... -15V, max. 5mA
Focus, High Bias:	-3kV ... -500V, max. 5mA
	Focus outputs can be pulsed with 1kHz
Filament:	-9V ... -6,3V, max. 2,5A
Ion pump:	3kV, 100 μ A
All high voltage outputs are designed for floating operation up to 10kV	
Modulation with rise and fall times down to 10 μ s	

Design

Double 19" cabinet, 37 HU (2000mm), 650mm depth

Application

The unit is used in manufacturing of travelling wave tubes for ageing and testing.

January 2006