

# High Voltage/ High Power Power Supply

## HYN 200000M-20000

Type:



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

Florianstr. 2  
D - 83024 Rosenheim  
GERMANY

**Low and High Voltage  
Power Supplies**

**DIN EN ISO 9001**

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

eMail:  
info@fug-elektronik.de

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



**Thyristor regulated  
high voltage power  
supply of high output  
power with various  
customer specific  
functions.**

### Special features

- Output pole isolated with 50 kV against earth;
- Coarse and fine adjustment of output voltage with two ten-turn-potentiometers;
- Indication of output voltage by an additional mains-independent measuring instrument;
- Signalisation when output voltage >5kV;
- Computer interface for power supply control and for supervision of mains input;
- Adjustable overvoltage and overcurrent trip;
- Adjustable rapid discharge of the output at short circuit ("crowbar") with counter (4  $\mu$ s reaction time);
- Safety- earth-switch of the output;
- Special safety locks force safe operation by the customer;
- Integrated test device for the rapid discharge circuitry: A 0.5 m long copper wire with 0.4 mm diameter shall not blow at short circuit.

### Technical data

Output voltage:	0 - 20.000 V
Output current:	0 - 10 A (20A peak)
Residual ripple:	<0,1%p-p
Mains:	400 V $\pm$ 10%, 3phase, 47 - 53 Hz
Environment temperature:	0 to 40°C

### Instrumentation

- 2x digital 3½ digit for output voltage and output current
- 1x analogue mains-independent for output voltage
- 1x analogue switchable for 3 phase mains voltage
- 3x analogue for 3 phase input current

### Computer interface IEEE 488

- Setting of output voltage and output current
- Read back of output voltage and output current
- Read back of mains input voltage and current of one phase
- Switch on and off of the power part

### Mechanical construction

Case:	Fourfold- 19" rack, 37 HU (2000 mm), 800 mm deep
Weight:	approx. 2600kg

### Application

Anode supply for a high power transmitter tube of a particle accelerator. Pulsed load.

September 03