

High Voltage/ High Power Power Supply HYN 20000M-20000

Type:



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

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**Low and High Voltage
Power Supplies**

DIN EN ISO 9001

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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 μ 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