



MCP Series

Defense oriented development



Your source for reliable high-voltage power supply components

High-voltage power supply unit for 2nd generation low-impedance microchannel plates with resistive anode readout

- operational temperature: -55°C to +95°C
- low consumption: 69mA typical (measured at 2KV, 100MO load and 25°C); <100mA over the whole operational temperature range
- input voltage: +5V
- MCP voltage (micro-channel plate)
 - adjustable to 3000V
 - 100µA max. current
 - ultra low temperature drift (25ppm/°C)
 - regulated with loads between 30MO and 8
- cathode voltage
 - two modes: ON (-280V) and OFF (+50V);
 - the switching of the power supply is controlled by the anode current discriminator.
- anode voltage
 - 330V floated on the MCP voltage supply
 - 4µA max. current
 - noise and ripple (with respect to ground) <500mV
- anode current trip
 - in case of overcurrent, the cathode voltage is switched to the OFF mode (+50V) for 225ms.
 - threshold current between 0.8µA and 4µA

