










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



Electro Optical Components, Inc.

5460 Skylane Boulevard, Santa Rosa, CA 95403
 Phone: (707) 568-1642 • FAX: (707) 568-1652
www.eoc-inc.com