

Quad output, High Voltage Rack Mount Power Supply designed for use with PHOTONIS bipolar time-of-flight detectors



Applications

- ✓ Channeltron®
- ✓ Electron multipliers
- ✓ Microchannel plate detectors
- ✓ Discrete dynode detectors
- ✓ Photomultiplier tubes
- ✓ Mass spectrometry
- ✓ Analytical instrumentation
- ✓ Geiger tubes
- ✓ Proportional counters

Features

- ✓ Input and output, scintillator and PMT supply provides drive voltages for MCP
- ✓ Four panel mounted output voltage display
- ✓ Individual front panel voltage adjustments
- ✓ Supply adjustment for positive and negative polarity
- ✓ 90-240 V ac input voltage
- ✓ Overload and short-circuit protected
- ✓ SHV output connectors
- ✓ All solid-state design
- ✓ Exceptional stability
- ✓ Low ripple < 0.05%
- ✓ Compact design
- ✓ Very economical

Model PF1055 is a solid-state, rack mount, high voltage power supply providing the four DC output voltages required to operate PHOTONIS Bipolar Time-Of-Flight detectors. The polarities can be set to tune the detector to detect either positive or negative ions. This unique power supply is specifically designed to provide over-voltage and arc protection for the sensitive components of the Bipolar TOF detectors. This product eliminates the supply synchronization problems associated with the use of individual power supplies. The PF1055 offers high precision and stability in a compact, economical package which makes it ideal for many laboratory applications.

Optional features

The PF1055 can be supplied with an optional RS232 or IEEE 488 input/output port to provide remote control capability. Accessory cables are available.

Model PF1055 Quad Output Power Supply

Specifications	
Dimensions	17" (D) x 19" (W) x 5.25" (H)
Input Voltage	90 to 240 V ac, 50-60 Hz
PMT supply (referenced to ground)	0 to 1 kV DC, 2 mA
Scintillator supply (referenced to MCP Supply)	0 to 3 kV, 100 μ A
Bias Voltage (referenced to ground)	0 to 10 kV DC, 200 μ A
MCP Supply (referenced to Bias Voltage)	0 to 1 kV DC, 100 μ A
Output Polarity (Scintillator, Bias, MCP)	Positive or Negative
Ripple	< 0.05%
Stability	< 0.05% / 8 hours (PMT Supply, Bias Voltage)
Line Regulation	0.05%
Load Regulation	0.05%
Output connectors	SHV male (PMT Kings type 1704-1 or equiv., Scintillator, Bias, MCP Kings type 1064-1 or equiv.)



The PF1055 is specifically designed to operate with the PHOTONIS Bipolar Time-of-Flight detectors

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