

# MODEL PF1055 QUAD OUTPUT HIGH VOLTAGE POWER SUPPLY

**Quad Output, High Voltage  
Rack Mount Power Supply  
Designed for Use with BURLE  
Bipolar Time-Of-Flight Detectors**

## Standard Features

The Model PF1055 Power Supply is easy to install and operate. Standard features include:

- Supply Provides Drive Voltages for MCP Input and Output, Scintillator and PMT
- Four Panel Mounted Output Voltage Displays
- Individual Front Panel Voltage Adjustments
- Supply Adjustment for Positive and Negative Polarity
- 90 - 240 VAC Input Voltage
- All Solid-State Design
- Overload and Short-Circuit Protection
- SHV Output Connectors
- 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 BURLE 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. High Voltage SHV Accessory cables are available.

## Applications

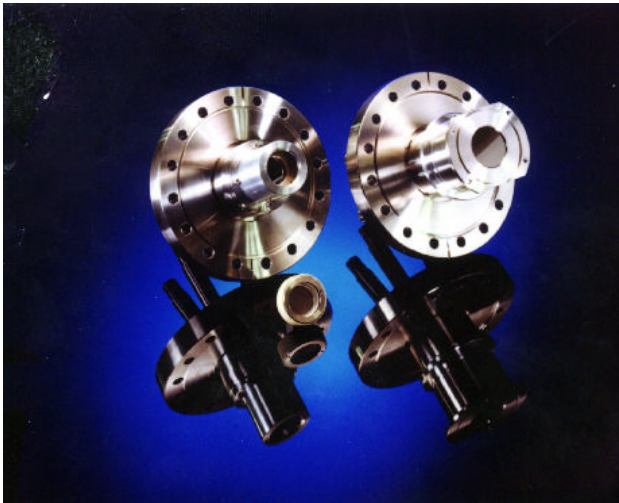
- BURLE Bipolar Time-Of-Flight Detectors
- Microchannel Plate Detectors
- Electron Multipliers
- Discrete Dynode Detectors
- Photomultiplier Tubes
- Mass Spectrometry
- Analytical Instrumentation
- Geiger Tubes
- Proportional Counters



# Model PF1055

## Quad Output, High Voltage Power Supply

Specifications	
Dimensions	17" (D) x 19" (W) x 5.25" (H)
Input Voltage	90 to 240 VAC, 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 $\mu$ A
Bias Voltage (referenced to ground)	0 to 10 kV DC, 200 $\mu$ A
MCP Supply (referenced to Bias Voltage)	0 to 1 kV DC, 100 $\mu$ A
Output Polarity (Scintillator, Bias, MCP)	Positive or Negative
Ripple	< 0.05%
Stability	< 0.05% / 8 hours (PMT Supply, Bias Voltage), < 0.1% / 8 hours (Scintillator, MCP Supply)
Line Regulation	0.05%
Load Regulation	0.05%
High Voltage 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 BURLE Bipolar Time-of-Flight Detectors**

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