Innovator In Spectroscopy Equipment

POSITIVE PRECISION HIGH VOLTAGE -3KV 1mA
MODEL PPHV2039X - PRO

NUCLEAR INSTRUMENTS MODULE

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Features:

- Compact single width NIM package
- Regulated up to +5000 V dc 500μA output for negative and positive separately
- Noise and ripple ⩽10mV peak to peak
- Overload and short circuit protected
- Overload, inhibit status indicators
- Inhibit and overload latching circuits
- Four digit front panel meter (OLED display)
- CFP Instrument Control Bus (optional)
- LAN, USB, RS232, RS485 ICB available

Description:

The CFP Model 2039 High Voltage Power Supply is a single-width NIM module designed primarily for use with photomultiplier and electron multiplier tubes. But it can be used with any detector requiring a bias voltage up to 5000 V and a current level of 500μA or less.

The 2039 allows the user to select from two continuously adjustable outputs, ranging from +15 to +5000 V dc. The output voltage is measured and displayed by a four-digit voltmeter. In addition, this unit allows the user to has fully separately positive and negative output voltage polarity. The 2039 unit are fully arc and short circuit protected and will limit continuous short circuit output current to less than 150% of maximum rated output current.

Specifications:

- **Inputs**
  - Input Power: The Model 2039 is powered from a standard NIM Bin and power supply
  - Inhibit: TTL Logic low or ground inhibits the HV outputs; max logic low ⩽0.4 V; logic high ⩾2.5 V
- **Outputs**
  - HV Output: +15 to +5000 V dc, continuously adjustable, 500μA output current
- **Indicators**
  - HV Output: 4-digit panel meter 0 to 5000 V
  - Inhibit: LED indicates Inhibit status
  - Overload: LED indicates overload status
- **Controls**
  - ON/OFF: Front panel toggle switch enables or disables output
  - Voltage: Front panel Multi turn controls switch continuous adjustment of the output voltage
  - Remote Control: Model 2039 have provisions for remote high voltage output control via an USB port.

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- Performance
  - Voltage Regulation
    - Line: ±0.001% of rated output voltage for a +1% input line chang
    - Loade: ±0.001% of rated output voltage for a full load chang
    - Ripplee: See 10mVpp tabl
    - Stabilitye: ≤0.005% per hour, 0.02% per 8 hours, after a ½ hour warm up
  - Temperature
    - Temperature Coefficient: ≤50ppm/°C
    - Operating Temperature: 0°C to +50°C
    - Storage Temperature: -40°C to +85°C
    - Arc/Short Circuit: All units are fully arc and short circuit protected and will limit continuous short circuit output current to less than 150% of maximum rated output current
  - Other
    - Humidity: 20% to 85% RH, non-condensing
    - Interface Connector: LAN, USB, RS232, Rs485
    - Voltage: Front panel Multi turn control switch continuous adjustment of the output voltage
    - Output Connector: SHV connector
    - Cooling: Convection cooled

Electrical and Mechanical Power Required:

- **Typical Power Requirements**
  - Standard version +12V - 450mA, -12 V - 450mA
- **Physical**
  - Size: Single width NIM module 3.43 X 22.12 cm (1.35 X 8.71 inches) per TID-20893 (rev.) NET
  - Weight: 0.9kg (2.0lbs.) - Shipping Weight - 2.2 kg (4.9 lbs.)
- **Accessories Included**
  - LAN, USB, RS232, RS485 cable (opt),
- **PPHV2039D Rev1.0 10015-001**

Model	Out put Voltage	Out put Current	Out put Number	Ripple (Vpp)
PPHV2039	0 to +500	0 to +8ma	2POS	5mv
PPHV2039A	0 to +1000	0 to +4ma	2POS	4mv
PPHV2039B	0 to +2000	0 to +2ma	2POS	2mv
PPHV2039C	0 to +3000	0 to +1ma	2POS	6mv
PPHV2039D	0 to +5000	0 to +500µa	2POS	10mv
PPHV2039E	0 to +7500	0 to +250µa	2POS	100mv


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