

## 2290 High Voltage Power Supplies



MODEL	STOCK CODE	MAX OUTPUT VOLTAGE	MAX OUTPUT CURRENT	POWER	RIPPLE
2290-5	NIC	5kV	5mA	25W	3mVRMS maximum with filter
2290-10	2401067	10kV	1mA	10W	1VRMS

### 30-SECOND SELL

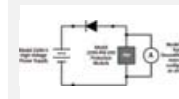
“Perform device breakdown or high energy physics research with high voltage power supplies that can output up to 5,000V or 10,000V. These supplies have very low noise to enable accurate low current measurements. The Series 2290 high voltage power supplies measure device leakage currents down to 1 $\mu$ s. To measure currents even lower—down to 10pA—integrate a Keithley SourceMeter<sup>®</sup> SMU instrument into the test system, and protect it from high voltage with a Keithley safety protection module.”

#### PRODUCT HIGHLIGHTS

- Source voltages up to 5kV and 10kV
- 1 $\mu$ A current measurement resolution
- Low noise for precision sourcing and sensitive measurements; selectable filters reduce noise to less than 3mVRMS on the 5kV supply
- Safety interlock controls high voltage output
- GPIB programmable
- Protection module prevents damage to low voltage instrumentation



The Model 2290-PM-200 Protection Module protects low voltage measurement equipment from voltages greater than 200V.



Reverse breakdown testing of a high voltage diode using a Keithley SourceMeter<sup>®</sup> SMU instrument to measure leakage currents down to picoamp levels. The Model 2290-PM-200 SMU Protection Module protects the SourceMeter SMU instrument from high voltage when the diode breaks down.

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## RECOMMENDED ACCESSORIES

For 2290-5:	
2290-5-SHV	5kV SHV Female–SHV Female Cable, 3m (10 ft)
2290-5-MHV	5kV SHV Female–MHV Male Cable, 3m (10 ft)
2290-5-SHVBH	5kV SHV Male Bulkhead Connector
2290-5-RMK-1	Single Fixed Rack Mount Kit for 5kV Power Supply
2290-5-RMK-2	Dual Fixed Rack Mount Kit for 5kV Power Supply
For 2290-10:	
2290-10-SHVUC	10kV SHV Male to Unterminated Cable, 3m (10ft)
2290-10-SHV	10kV SHV Male–SHV Male Cable, 3m (10 ft)
2290-10-SHVBH	10kV SHV Female Bulkhead Connector
2290-10-RMK-1	Single Fixed Rack Mount Kit for 10kV Power Supply
2290-10-RMK-2	Dual Fixed Rack Mount Kit for 10kV Power Supply
For both:	
2290-PM-200	10kV Protection Module
2290-INT-CABLE	3-Pin Connector to Unterminated Interlock Cable
4299-7	Fixed Shelf Rack Mount Kit
KPCI-488LPA	IEEE-488.2 Interface Board for the PCI Bus
KUSB-488B	IEEE-488.2 USB-GPIB Interface Adapter for USB port with built-in 2m (6.6 ft) cable
7007-05	Double Shielded Premium IEEE-488 Interface Cable, 0.5m (1.6 ft)
7007-1	Double Shielded Premium IEEE-488 Interface Cable, 1m (3.2 ft)
7007-2	Double Shielded Premium IEEE-488 Interface Cable, 2m (6.5 ft)
7007-3	Double Shielded Premium IEEE-488 Interface Cable, 3m (10 ft)
7007-4	Double Shielded Premium IEEE-488 Interface Cable, 4m (13 ft)

## SHIPS WITH PRODUCT

- CD with User Manual, Software Drivers, and Accessory Information
- Power Cord

## ANOTHER PRODUCT FOR CONSIDERATION




If only 3000V is needed, consider the **Model 2657A** High Power System SourceMeter SMU Instrument, which has bipolar output and can resolve 1fA.  
**See page 80**

## RECOMMENDED SERVICE

Model Number*-3Y-EW	1-Year Factory Warranty extended to 3 years from date of shipment	0000000
Model Number*-5Y-EW	1-Year Factory Warranty extended to 5 years from date of shipment	0000000
C/Model Number*-3Y-STD	KeithleyCare 3-Year Standard Calibration Plan	0000000

\* Insert Model Number. Examples: 2290-5-3Y-EW, C/2290E-10-3Y-STD.

## TOOLS FOR THE CUSTOMER

 Data Sheet

FOR MORE INFO VISIT  
[TEK.COM/DC-POWER-SUPPLY/SERIES-2290-HIGH-VOLTAGE-DC-POWER-SUPPLIES](http://TEK.COM/DC-POWER-SUPPLY/SERIES-2290-HIGH-VOLTAGE-DC-POWER-SUPPLIES)

## 3 Reasons to Buy this Product

- 1 Perform breakdown testing up to 10kV with a low-noise source on high voltage semiconductor devices used in the power generation, power transmission, and transportation industries.
- 2 Perform high energy research.
- 3 Protect low voltage measurement instrumentation with protection modules and protect personnel with the safety interlock in the high voltage supplies.