

Keithley Instruments
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SMU Protection Module Characteristics**CONDITIONS**

This document contains specifications and supplemental information for the Model 2290-PM-200 Protection Module. Specifications are the standards against which the Model 2290-PM-200 is tested. Upon leaving the factory, the Model 2290-PM-200 meets these specifications. Characteristics, supplemental characteristics, and typical values are not warranted, apply at 23 °C ± 5 °C, < 70 percent relative humidity, and are provided solely as useful information.

CHARACTERISTICS

Leakage	< 10 pA at 200 V typical
DC current carrying capability	100 mA in unclamped condition
Maximum protection active current	Current must be limited to <120 mA in clamped condition (~230 V)
Protection voltage	220 V DC minimum 230 V DC typical 240 V DC maximum
Series resistance	470 Ω ± 10 %
Dimensions	81.28 mm long × 81.53 mm wide × 54.10 mm high (3.20 in. long × 3.21 in. wide × 2.13 in. high) Maximum length with high-voltage connectors: 135.64 mm (5.34 in.)
Weight	0.25 kg (0.55 lb)

GENERAL

Warranty	1 year
Safety	Listed to UL 61010-1:2012 (3 rd edition) Conforms to European Union Low Voltage Directive

CONNECTORS:

High voltage	5 kV connector: Male SHV, 9.35 mm (0.38 in.) diameter, Kings 1704-1 10 kV connector: Female SHV, 13.59 mm (0.535 in.) diameter, Kings 1764-1
Low voltage	Triaxial, female, quantity of 2
Safety	Protective earth (safety ground) screw terminal, quantity of 2

