

Table 14-3 HP 44725A Specifications

Maximum Input Voltage (Vmax) per channel: 30 V DC or RMS
42 V peak

Maximum Input Current: 1.5 A DC, 1.5 A RMS per channel

Maximum Sum of the Squared RMS Currents in Each Channel (per module; for any type load): 24 A²

Closed Channel Path Resistance: 175 mΩ

Switch Life: At Full Load, 10⁸ (<=2 switches per second)
At Minimum Load, 10⁹ (<=2 switches per second)

Input Impedance:

Impedance	Terminals		
	Open Contacts	Channel to Channel	Channel to Earth
Resistance (Ω)	>10 ⁹	>10 ⁹	>10 ⁹
Max. Capacitance (pf) at 1MHz	10	5	30

Crosstalk: -73 dB at 100 kHz (channel-to-channel, 50 Ω source, 1 MΩ termination)

Maximum Offset Voltage: 5 μV

Maximum Bias Current: ±5 nA DC

Minimum Load: 100 mV minimum DC voltage and 100 μA minimum DC current is needed to avoid excessive buildup of contact resistance

Maximum Wire Size: 16 AWG