

SAFETY STANDARD REFERENCE CHART

Standard / Harmonized Standard	Testing Type	Dielectric Withstand			Ground Bond/Continuity				Earth Leakage		Insulation Resistance			Suggested Model #
		Test Voltage	Max I.	Test Time	Test Current	V Limit	Max. R	Test Time	Test Voltage	Max I.	Test Time	V Limit	Min R	
H.U.D. Specification #24 CFR 3280.810	Performance	900-1079 VAC or 1273-1526 VDC	No Breakdown	60 s	Continuity				N/A		N/A			294, 295, 296, 297
	Production	1080-1250 VAC or 1527-1768 VDC	No Breakdown	1 s	Continuity				N/A		N/A			294, 295, 296, 297
R.V.I.A. (NEC)	Performance	900 VAC or 1280 VDC	No Breakdown	60 s	Continuity				N/A		N/A			294, 295, 296, 297
	Production	1080 VAC or 1530 VDC	No Breakdown	1 s	Continuity				N/A		N/A			294, 295, 296, 297
IEC 60335-1 / GB 4706.1 Household Electrical Appliances	Performance	500 – 2400 VAC x rated V + 2400 VAC	No Breakdown	60 s	≥ 10 A	≤ 12 V	0.1 – 0.2 Ω	≤ 120 s	1.06 x rated V	0.25 – 5.0 uA	N/A			298*
UL 60335-1 Household Electrical Appliances	Performance	500 V – 2400 VAC x rated V + 2400 VAC	No Breakdown	60 s	40 A	≤ 6.5 V	≤ 0.5 Ω	120 s	1.06 x rated V	0.25 – 5.0 uA	N/A			298*
IEC 60598-1 / GB 7000.1 Luminaires	Performance	500 – 4 x rated V + 2000 VAC	No Breakdown	60 s	≥ 10 A	≤ 12 V	≤ 0.5 Ω	60 s	Rated V	0.5 – 10 mA	60 s	500 VDC	1-4 MΩ	298*
	Production	Not Specified - Responsibility of Manufacturer												294, 295, 296, 297
UL 1598 Luminaires	Production	1200 VAC	No Breakdown	1 s	Continuity		≤ 0.1 Ω	Continuity	N/A		N/A			295
IEC/UL 61010-1 / CSA 22.2 No. 61010-1 / GB 4793.1 Laboratory Control Test & Measurement Equipment	Performance	840 - 11940 VAC or 1200 - 7500 VDC	No Breakdown	5 - 60 s	25 or 30 A	≤ 10 V or ≤ 12 V	≤ 0.1 Ω or < 4 V 0.133 Ω	60 or 120 s	< 300 V	0.5 mA	N/A			298*
	Production			5 s max ramp up 2 s dwell	Continuity				N/A		N/A			294, 295, 296, 297
UL 45A Portable Electrical Appliances	Production	1000 - 3000 VAC	No Breakdown	1 s	Continuity				N/A		N/A			294, 295
UL 60950-1 CSA 22.2 No. 60950-1 / IEC 62368-1 / GB 4943.1 Audi/Video, Information & Communication Technology Equipment	Production	1000 – 3000 VAC or 1414 – 4242 VDC	No Breakdown	1 – 6 s	Continuity				N/A		N/A			294, 295, 296

* This standard requires the use of a 500VA Hipot Tester