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## Common safety standards used with power supplies

A topic that comes up very regularly is what do the various safety standards pertain to. Here is a brief list of commonly used standards, the equipment that uses them, typical products and their purpose.

<b>Base Standard</b>	<b>Country (ies)</b>	<b>Equipment Type</b>	<b>Generic Product Types</b>	<b>Purpose</b>
CCC	China	Many	Many	Safety & Quality Mark
CE	EU	Voluntary declaration based on miscellaneous standards	Many	Indicate conformity to standards
CSA 60950	CSA	Information Technology	Office machines, data & telecom networks, IT, Kiosks	Protect against fire, electric shock, injury
CSA60065	CSA	Audio, Video and Similar	Video, audio, projectors	Protect against fire, electric shock, injury
CSA60601	CSA	Medical Electrical	Surgical, monitoring, hospital equipment	Safety
CSA61010-1	CSA	Measurement, Control and Laboratory	Meters, Oscilloscopes	Protect against fire, electric shock, injury
EN50178	EU	Power	Power generation, power installations	Safety
EN55011	EU	Industrial, scientific, and medical r-f	Monitoring equipment, automation controls, measuring	Limits and measurement of radio disturbance
EN55015	EU	Lighting	Lighting, LED lighting, street lighting	Limits and measurement of radio disturbance
EN55022	EU	Information Technology	Office machines, data & telecom networks, IT, Kiosks	Emission Limits (radiated and conducted)
EN60065	EU	Audio, Video and Similar	Video, audio, projectors	Protect against fire, electric shock, injury
EN60601	EU	Medical Electrical	Surgical, monitoring, hospital equipment	Safety
EN60950-1	EU	Information Technology	Office machines, data & telecom networks, IT, Kiosks	Protect against fire, electric shock, injury
EN61010-1	EU	Measurement, Control and Laboratory	Meters, Oscilloscopes	Protect against fire, electric shock, injury
Factory Mutual	US	Use in hazardous locations	Oil refinery, petrochemical	Protect against explosion

FCC Part 15	US	Many	Many	Emission Limits (radiated and conducted)
ISA 12-12	US	Use in hazardous locations	Oil refinery, petrochemical	Protect against explosion
REACH	EU	Many	Many	Registration, Evaluation, Authorization and restriction of Chemicals
SEMIF47	US	Semiconductor fabrication	Die manufacturing, wafer fabs	Withstand dips in AC input
UL 60950	UL	Information Technology	Office machines, data & telecom networks, IT, Kiosks	Protect against fire, electric shock, injury
UL1310	UL	Power Supplies	DIN Rail, LED lighting, access controls, building automation	Protect against fire
UL508	UL	Industrial Control	Process control, factory automation	Safety
UL60065	UL	Audio, Video and Similar	Video, audio, projectors	Protect against fire, electric shock, injury
UL60601	UL	Medical Electrical	Surgical, monitoring, hospital equipment	Safety
UL61010-1	UL	Measurement, Control and Laboratory	Meters, Oscilloscopes	Protect against fire, electric shock, injury
VCCI	Japan	Information Technology	Office machines, data & telecom networks, IT, Kiosks	Limits and measurement of RF emissions
VDE0805	Germany	Information Technology	Office machines, data & telecom networks, IT, Kiosks	Protect against fire, electric shock, injury

Let me know if this table is helpful.

Posted by [Power Guy](#)