

CRITERIA FOR PRODUCT FAMILY GROUPING



NOM-001-SCFI-1993

Electronic appliances – Electronic household appliances that run on different electric power sources – Safety requirements and test methods for type approval.

According to Policies and Procedures for Conformity Assessment. Certification and follow-up procedures for products subject to Mexican Official Standards, within the jurisdiction of the Ministry of Economy.

Product models are deemed to be of the same family when they comply with the following conditions:

- Identical brand.
- Identical power consumption or energy consumption and identical power supply components-
- Products shall have identical power consumption with 10% tolerance between highest and lowest consumption models provided they still comply with the heating, electrical shock, stability and mechanical strength tests.
- Radio receivers with identical operating frequency rating and carrier frequency modulation type.
- Televisions with black and white kinescope of identical size, with or without remote control.
- Televisions with color kinescope of identical size, with or without remote control.
- Video projectors that reproduce the same type and format tapes, with identical accessories and mechanical elements.
- Audio amplifiers with identical audio output power or with 20% tolerance between models of the highest and lowest audio output power, whether powered by the electrical network or by batteries, and that have identical load impedance in the speakers.
- Audio or video players and/or recorders with or without remote control that reproduce and/or record on analogical and/or digital tapes, with identical electrical and mechanical accessories and elements.
- Independent remote control units, with identical voltage and feed type. Antenna signal amplifiers with identical frequency rating and operation performance.
- Microwave ovens with identical volumetric capacity, with digital and/or analogical controls and identical power consumption.
- Black and white or color monitors that have kinescope of identical size, provided the quality and type of insulating materials used in their electrical and/or electronic components do not change. Power supplies shall be of an identical type and input and output voltage.
- Video games with identical type of accessories, functions and compatibility with the type of game cartridge and identical characteristics of the apparatus to be connected.
- External and internal parts shall be of identical material and shall allow changes in appearance provided they still comply with the heating, electric shock, stability and mechanical strength tests.
- Plastic parts may be changed for metal parts that may have contact with the user provided the degrees of protection against electrical shock and heating are complied with.
- Insulating, thermal and electrical materials shall be of identical type and operation capacity.
- Mechanical fastening systems shall be of identical type and strength.
- Lighted indicators, switches and counters may be included as variables of the same model provided products comply with the other criteria.

For the purpose of certification, the certifying bodies consider a maximum of 8 (eight) products per family for each application. (This is because of costs.)

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