



L C I E

COLLECTION of DECISIONS

NF089

NF ELECTRICITE / NF ELECTRICITE PERFORMANCE

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Introduction

This document compiles all the opinions and decisions taken by the NF089 particular certification committee within the framework of its functions. It thus allows each holder or applicant to have the necessary information for the certification of his products within the framework of the NF089 regulation.

Some of the topics mentioned are cross-cutting, that is, valid for all types of products covered by certification; on the other hand, some decisions only concern a specific product family.

However, this collection is not intended to compile the technical opinions and normative interpretations of the laboratories, this point being the evaluation and not the certification.

Dates

Date of Application of Collection NF089 Version : 01 (= date from which all equipment applying for NF mark shall comply with the requirements of this document).	15/11/2022
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PUBLICATION HISTORY

Version	Date	Author	Modification
01	01/02/2021	G. LEMONNIER	None (creation of the document)
02	15/11/2022	G. LEMONNIER	Add of §4.1 Marking of motorization system

1 1 Scope

This document applies to household and similar electrical appliances (EN 60335 standard family) as well as portable power tools (EN 60745 or EN 62841 standard family) seeking to obtain the NF mark.

2 2 Transversal topics

2.1 Certification and draft standards

It is possible to issue NF ELECTRICITE and NF ELECTRICITE PERFORMANCE licenses on the basis of draft standards. As soon as the final standard is published, a study will be carried out to determine whether a complementary evaluation is necessary. In any case, new licenses will have to be issued indicating the new normative reference.

2.2 Product references

Generic references of the type "papi-xxx-yy-zz" are accepted, provided that they explicitly define what the digit xxx-yy-zz

In the case of NF licenses, in addition to the generic reference and its explanation, all possible references with the digits must be mentioned in the appendix of the license.

Note: In the case of CB certificates, the generic reference will appear on the certificate, as well as the explanations related to the digits (optionally all possible references may be cited in the appendix, but this is not mandatory).

2.3 Certification of products delivered in "Kit"

Kit products are defined by "modular" products, whose technical characteristics may vary depending on the number of modules and the layout. NF ELECTRICITE and NF ELECTRICITE PERFORMANCE certification of this type of product is not allowed.

Note: Devices designed as a unit but delivered in several parts are allowed (see §5.10 and § 8.1.5 of EN 60335-1)

2.4 Announcement of certified values (with tolerance or modification of digits)

Holders are only authorized to communicate (to their customers, specifiers, design office, etc.) on the certified NF ELECTRICITE or NF ELECTRICITE PERFORMANCE performances of their equipment, only by using only and exactly the values indicated on the licenses.

2.5 2.5 Concordance between products and manufacturing sites registered on licenses (NF and CB)

In order to guarantee perfect traceability, the products listed on the licenses must all be manufactured in all the sites mentioned on these license (the holder can choose not to produce some product reference on one of the sites, but this site must have the production capacities for this reference, this point may be checked during surveillance audits).

3 Room heating appliance

3.1 Name of the products

In the context of the NF ELECTRICITE mark, only the names "room heating appliance" and "room heating appliance and towel rail" (if the product (s) have (this) secondary function) must be indicated in NF reports and licenses.

As part of the NF ELECTRICITE PERFORMANCE mark, depending on the type of appliance, only the following denominations may be indicated in the NF ELECTRICITE PERFORMANCE reports and licenses:

- Convection heaters
- Convection heaters and towel rail
- Panel heater
- Panel heater and towel rail
- Radiator
- Radiator and towel rail

3.2 Certification of "mixed" products

As part of the NF ELECTRICITE certification, it is possible to certify "mixed" products, that is to say appliances that run on electricity but can also use another source of energy (hot water, etc.). ...)

To do this, it will first be necessary for certification to be first attributed to strictly electrical products; then extended (by maintain of the licence) to mixed products.

3.3 3.3 Towel Rail

Towel rail with a power rating of less than 300W are considered exclusively as towel rail, and therefore must meet the 60335-1 and 60335-2-43 series of electrical safety standards.

Towel rail with a power of 300W or higher are considered as towel rail but also as room heating appliance device. As a result, they must meet the 60335-1, 60335-2-30 and 60335-2-43 series of electrical safety standards.

3.4 Room heating appliances provided with a plug socket

The installation rules in France (NF C15-100) prohibit the connection of fixed room heating appliance to the electrical installation via a plug and outlet socket.

However, it is possible to sell room heating appliance certified NF ELECTRICITE or NF ELECTRICITE PERFORMANCE in other countries, in which a connection via plug and socket is allowed.

As a result, it is possible to certify NF ELECTRICITE or NF ELECTRICITE PERFORMANCE room heating appliances provided with a plug socket

Note: It will no longer be mentioned any restriction of use the use in the NF license on this point.

3.5 Room heating appliances with conversion kit

As part of the NF ELECTRICITE and NF ELECTRICITE PERFORMANCE certifications, it is not authorized to certify room heating appliances provided with a kit, this kit making it possible to transform fixed room heating appliance into mobile room heating appliance (or vice versa).

3.6 Product certification without regulation

Any room heating appliance or room heating appliance and towel rail, which is not equipped with regulation (so that it cannot ipso facto be NF ELECTRICITE PERFORMANCE certified), may nevertheless be NF ELECTRICITE certified, provided that it is equipped with a non-shutable timer whose maximum duration is limited to one hour

3.7 NF ELECTRICITE certified product with one/more NF ELECTRICITE PERFORMANCE certifiable functions

There is no obligation to "certify" these functions if the product is not NF ELECTRICITE PERFORMANCE certified.

Example: a radiator that possesses a presence detection, can be certified NF ELECTRICITY only. Presence detection will not be covered (nor tested) by certification.

3.8 Electric power input and heat output

In order to be certified NF ELECTRICITE or NF ELECTRICITE PERFORMANCE, room heating appliances (and towel rail with a power input of 300W or higher) shall have a nominal heat output better than 90% of the nominal electric power input.

4 Motorization

4.1 Marking of motorization systems certified NF089

Motorization systems are composed of all or part of the following elements:

- A motorization
- Photovoltaic cells
- Batteries
- A battery charger

The whole (i.e. the system made up of all its constituent elements) is NF ELECTRICITE certified. As such, the license perfectly and explicitly describes the constitution of the entire system.

The manufacturer of the motorization component can have a complete system certified. In this case, the NF ELECTRICITE marking of the system must be carried by the motorization component. The installation and user instructions which must systematically accompany the product must describe without any ambiguity and in an explicit manner the system covered by the NF ELECTRICITE certification.

In some cases, the manufacturer of the motorization component delivers this component to an "integrator", who will create a system (by adding the battery bricks – photovoltaic cells – chargers) and have this system certified NF ELECTRICITE. In this configuration, the manufacturer of the "motorization" component is not able to apply "a priori" the NF mark for the system on the "motorization" component.

- Knowing that these "motorization systems" are mainly incorporated into other closing products (roller shutters, etc.), which require these "motorization systems" to obtain NF ELECTRICITE certification, before issuing NF FERMETURE certification,
- Knowing that these "motorization systems" are essentially handled by qualified professionals who install them in "Closure" products, already promoting the NF mark themselves, via the NF FERMETURE mark,
- Knowing that the end consumer never has access to the motorization system under normal conditions, and therefore cannot see the markings associated with this system,

It is accepted that the elements of the "motorization system", and in particular the motorization itself, may not bear the NF ELECTRICITE mark.

In this case, the instructions for installation and use which must systematically accompany the closing product shall mention the NF ELECTRICITE certification of the incorporated motorization system and shall describe without any ambiguity and in an explicit manner the system which is covered by NF ELECTRICITE certification.