

Regulatory Update – Brazil

New ANATEL requirements for Cell Phone Chargers

Following ANATEL's public consultation No. 32 which ended on 30th November 2016, ANATEL issued Act no. 493 on 10th July 2017, which updates the requirements for Cell Phone Chargers.

Act no. 493 introduces new requirements for vehicle and wireless chargers that are intended to be used with Cell Phones, listing them as Category I products (1 year validity).

ANATEL Approval for vehicle chargers used with Cell Phones will become mandatory 180 days after the initial publication of Act no. 493, which would be 06th January 2018. A date has not been confirmed date for when Wireless Chargers will become mandatory for ANATEL approval under the new Act No. 493.

Testing will be carried out locally based on the requirements set out in the attached Act no. 493. The chargers will be required to test with the Cell Phone they are intended to be used with.

Full details of the applicable tests and procedures can be found in the official English translation of Act no. 493 attached to this update.

For additional information regarding this update, please contact:

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Date of Issue: 17th July 2017

BRAZILIAN TELECOMMUNICATIONS AGENCY

ACT No. 493, dated 30 JANUARY 2017

THE SUPERINTENDENT OF COMMISSIONING AND RESOURCES FOR THE PROVISION - ANATEL,
pursuant

to the powers conferred upon him by Decree No. 419, of 24 May 2013, and

WHEREAS the powers granted by sub-paragraphs XIII and XIV of Art. 19 of Law No. 9.472/97 – of the General Telecommunications Law;

WHEREAS sub-paragraph II of Art. 9 of the Regulations on the Certification and Qualification of Telecommunication Products, approved by Resolution No. 242, of 30 November 2000;

WHEREAS Art. 1 of Decree No. 419 of 24 May 2013; WHEREAS the content of the records for case No. 53500.014668/2016-35;

HEREBY RESOLVES:

Art. 1. To amend the technical requirements for the product "Mobile Phone Charger", contained in the List of Technical Product Requirements for Telecommunications - Category I, in accordance with Annex I of this Act.

Art. 2 That the Statement of Technical Product Requirements for Telecommunications - Category I shall be published on the Anatel website.

Art. 3 This Act comes into force on the date the respective statement extract is published in the Official Federal Gazette.



Document electronically signed by **Vitor Elisio Goes de Oliveira Menezes, Superintendent of Commissioning and Resources for Services**, on 04/07/2017, at 16:38, in accordance with official Brasilia time, based on art. 30, subclause II of Decree No. 1.476/2014 of Anatel.



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ANNEX 1

Product: Mobile Phone Charger**Scope of requirements:**

The following requirements are applicable to assess compliance of chargers used in mobile phones.

Definitions:

1. Charger used for mobile phone: equipment used to charge mobile phone batteries. Cables and other equipment that do not convert/adapt energy from the outlet in order to power the mobile phone are not covered by this definition;
2. Inductive charger: system made up of a coil generating a magnetic field that when attached to the device to be charged generates a field to transfer electrical power by induction or magnetic resonance or by capacitive coupling, also known as a WPT (Wireless Power Transmission) charger; and
3. Charger used in a vehicle environment: used in vehicles which have a continuous current (CC) power source of 12 V or 24 V; this power source may also be inductive.

Certification scope:

The Certificate of Compliance should only cover one mobile phone charger model. Chargers that have the same circuit board, same interconnection diagram, same printed circuit layout and internal hardware may be covered by the same certification due to their similarity with the model that was tested.

The requirements shall be compulsory for 180 days after these requirements become effective for chargers used exclusively in a vehicle environment and do not use WPT technology.

Standard document	Applicable requirements	Test procedures
a) Annex to Resolution No. 481, dated 10 September 2007, approves the Standard for the Certification and Qualification of Lithium Batteries and Chargers Used in Mobile Phones	In their entirety.	See standard.

<p>b) Annex to Resolution No. 442, dated 21 July 2006 - Regulation for Certification of Telecommunication Equipment in regards to the Aspects of Electromagnetic Compatibility.</p>	<ul style="list-style-type: none"> - Heading II - Except § 2 of Art. 6 for the inductive charger (WPT); - Heading III - Except § 3 of Art. 9; - Heading IV - § 4 and § 5 of Art. 13. <p>For chargers used exclusively in a vehicle environment, only apply the test described in Heading III - § 4 of Art. 9.</p> <p>For electrostatic discharge tests (§ 4 of Art. 9), criteria C should be adopted.</p>	<p>For the tests described in §§1 to 5 of Art. 9 and described in § 4 of Art. 13 of Res. 442, the manufacturer must supply a mobile phone with its battery initially drained in order to conduct the test;</p> <p>For the other tests, alternatively to the procedures described in item 8 of the annex to Resolution No. 481/2007, that describes the use of the mobile phone attached to the charger in order to conduct the compliance assessment tests, a resistive load simulating conditions of high current drainage during charging may be used, as specified by the manufacturer of the charger.</p>
<p>c) ETSI EN 301 489-1 V1.9.2 (2011-09) Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.</p>	<p>For chargers used in a vehicle environment:</p> <ul style="list-style-type: none"> - 9.6 Transients and surges in the vehicular environment 	<p>ISO 7637-2:2011 Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only.</p>
<p>d) Annex to Resolution No. 529, dated 03 June 2009 - Regulation for Equipment Certification</p>	<ul style="list-style-type: none"> - Heading IV; - Heading VI; - Heading VII. 	<p>See notes III, IV and IX.</p>

of Telecommunications as regards Aspects of Electric Safety.	For chargers used exclusively in a vehicular environment, only apply the test described in Heading VII.	Alternatively to the procedures described in item 8 of the annex to Resolution No. 481/2007, that describes the use of the mobile phone attached to the charger to conduct the compliance assessment tests, a resistive load simulating conditions of high current drainage during charging may be used, as specified by the manufacturer of the charger.
e) Inductive charger (Wireless Power Transmission charger) Code of Federal Regulations – CFR FCC PART 18 – INDUSTRIAL, SCIENTIFIC, AND MEDICAL EQUIPMENT	Subpart C – TECHNICAL STANDARDS §18.305 - Field strength limits (Equipment Any type, Operating frequency: Any non-ISM frequency).	The test procedures are stipulated in Act No. 1135, dated 18 February 2013. See notes III and IV.
f) Inductive Charger (Wireless Power Transmission charger) Decree No. 176, dated 10 June 1992 – STANDARD No. 02/92 – BASIC STANDARD OF ELECTROMAGNETIC DISTURBANCES PRODUCED BY INDUSTRIAL EQUIPMENT, SCIENTIFIC AND MEDICAL (ISM EQUIPMENT)	Table 2 – Frequencies prohibited for ISM equipment	For the inductive charger, confirm whether the fundamental frequency of the equipment is not in one of the prohibited frequencies in accordance with Table 2 of the standard.

Observations:

1. The Certificate of Compliance must show the maximum values of voltage and electrical current applied to the input and output of the charger, specified by the manufacturer and used in its compliance assessment.
2. The safety label identifying qualification should be placed on the body of the charger, in accordance with the model and specifications established by Anatel.
3. The chargers that include classified modules, such as Restricted Radiation Radiocommunications Equipment, should also verify compliance with the requirements that apply to the respective modules.