



List of EMC Tests UN ECE R10 Rev.6

Applied for the product(s)	Test Type	Test Name	Reference Standard(s)	Related Annex and Pages of ECE R10 Rev6
Vehicles with configurations of the vehicle: (a) Other than "REESS charging mode coupled to the power grid"; (b) "REESS charging mode coupled to the power grid".	Emission	Measurement of radiated broadband electromagnetic emissions from vehicles	CISPR 12	Annex 4 (p.61-73)
Vehicles with "REESS charging mode coupled to the power grid".	Emission	Measurement of radiated narrowband electromagnetic emissions from vehicles	CISPR 12 CISPR 25	Annex 5 (p.74-77)
Vehicles with configurations of the vehicle: (a) Other than "REESS charging mode coupled to the power grid"; (b) "REESS charging mode coupled to the power grid".	Immunity	Testing for immunity of vehicles to electromagnetic radiation	ISO 11451-2 ISO 11451-4 ISO 11451-1	Annex 6 (p.78-91)
ESAs: (a) Other ESAs than involved in "REESS charging mode coupled to the power grid". (b) ESAs involved in "REESS charging mode coupled to the power grid".	Emission	Measurement of radiated broadband electromagnetic emissions from electrical/electronic sub-assemblies (ESAs)	CISPR 25 CISPR 12	Annex 7 (p.92-97)
ESAs other than those involved in "REESS charging mode coupled to the power grid".	Emission	Measurement of radiated narrowband electromagnetic emissions from electrical/electronic sub-assemblies	CISPR 25 CISPR 12 CISPR 16-1-4	Annex 8 (p.98-99)



ESAs: (a) Other ESAs than involved in "REESS charging mode coupled to the power grid". (b) ESAs involved in "REESS charging mode coupled to the power grid".	Immunity	Testing for immunity of electrical/electronic subassemblies to electromagnetic radiation	ISO 11452-2 ISO 11452-3 ISO 11452-4 ISO 11452-5 ISO 11452-1	Annex 9 (p.100-112)
ESAs	Immunity & Emission	Testing for immunity to and emission of transients of electrical/electronic sub-assemblies	ISO 7637-2	Annex 10 (p.113)
Vehicles in configuration "REESS charging mode coupled to the power grid"	Emission	Testing for emission of harmonics generated on AC power lines from vehicle	IEC 61000-3-2 IEC 61000-3-12	Annex 11 (p.114-117)
Vehicles in configuration "REESS charging mode coupled to the power grid"	Emission	Testing for emission of voltage changes, voltage fluctuations and flicker on AC power lines from vehicle	IEC 61000-3-3 IEC 61000-3-11	Annex 12 (p.118-121)
Vehicles in configuration "REESS charging mode coupled to the power grid".	Emission	Testing for emission of radiofrequency conducted disturbances on AC or DC power lines from vehicles	CISPR 16-2-1	Annex 13 (p.122-125)
Vehicles with "REESS charging mode coupled to the power grid".	Emission	Testing for emission of radiofrequency conducted disturbances on wired network port from vehicles	CISPR 22 CISPR 16-1-4 CISPR 12	Annex 14 (p.133-136)
Vehicles with "REESS charging mode coupled to the power	Immunity	Testing for immunity of vehicles to electrical fast transient/burst	IEC 61000-4-4	Annex 15 (p.133-136)



grid".		disturbances conducted along AC and DC power lines		
Vehicles with "REESS charging mode coupled to the power grid".	Immunity	Testing for immunity of vehicles to surges conducted along AC and DC power lines	IEC 61000-4-5	Annex 16 (p.137-140)
ESAs in configuration "REESS charging mode coupled to the power grid"	Emission	Testing for emission of harmonics generated on AC power lines from an ESA	IEC 61000-3-2 IEC 61000-3-12	Annex 17 (p.141-143)
ESAs in configuration "REESS charging mode coupled to the power grid"	Emission	Testing for emission of voltage changes, voltage fluctuations and flicker on AC power lines from an ESA	IEC 61000-3-3 IEC 61000-3-11	Annex 18 (p.144-146)
ESAs in configuration "REESS charging mode coupled to the power grid".	Emission	Testing for emission of radiofrequency conducted disturbances on AC or DC power lines from an ESA	CISPR 16-2-1 CISPR 16-1-4 CISPR 12	Annex 19 (p.147-149)
ESAs in configuration "REESS charging mode coupled to the power grid".	Emission	Testing for emission of radiofrequency conducted disturbances on wired network port from an ESA	CISPR 22 CISPR 16-1-4 CISPR 12	Annex 20 (p.150-152)
ESAs in configuration "REESS charging mode coupled to the power grid".	Immunity	Testing for immunity of an ESA to Electrical Fast Transient/Burst disturbances conducted along AC and DC power lines	IEC 61000-4-4	Annex 21 (p.153-155)
ESAs in configuration	Immunity	Testing for immunity of	IEC 61000-4-5	Annex 22



"REESS charging mode coupled to the power grid".		ESAs to surges conducted along AC and DC power lines		(p.156-159)
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Remarks:

- 1) "REESS" means the rechargeable energy storage system that provides electric energy for electric propulsion of the vehicle.
- 2) "Coupling system for charging the REESS" means the electrical circuit installed in the vehicle used for charging the REESS.
- 3) "REESS charging mode coupled to the power grid" means the normal charging operation mode of the vehicle and/or charging system

Source: [UN ECE Regulation 10 Revision 6](#)

This list is prepared by Testups and shows the EMC tests according to UN ECE R10 Rev.6. For details of each test, please check the regulation itself. If you want to ask anything about the list Contact Testups by sending an email to info@testups.com or visiting our website: <https://www.testups.com/>