

ELECTROMAGNETIC COMPATIBILITY WEBINAR SERIES

EMC Challenges for EVs

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Craig W. Fanning, EMC Lab Manager/Sr. EMC Engineer

Relevant Standards Discussed:

All the standards shown below would apply to ICE Vehicles, Hybrid Vehicles, Electric Vehicles and their components (ESAs).

Vehicle EMC Standards (ICE, HEV, EV):

ECE Reg 10.06

CISPR 12 (for the protection of off-board receivers at 10 meters)

CISPR 25 (for the protection of on-board receivers)

CISPR 36 (EV and HEV only)

ISO 11451-xx (Immunity Standards)

ISO 10605 (ESD Immunity)

Vehicle Component (ESA) EMC Standards (ICE, Hybrid, EV):

ECE Reg 10.06

CISPR 25 (for the protection of on-board receivers)

ISO 11452-xx (Immunity Standards)

ISO 7637-3 (Transient Immunity)

ISO 10605 (ESD Immunity)

EMC Standards for on-board and off-board Chargers:

IEC 61851-21-1 (on-board chargers)

IEC 61851-21-2 (off-board charging stations)

EMC Standard for WPT:

IEEE/ANSI C63.30

SAE J2954