



Power Determination Regulation of Korea

24th May. 2024



Current States on Power Determination Regulation of Korea

- KMVSS No. 106
- Scope and Application
 - All Passenger vehicles, Buses and Trucks
 - All ICE(Internal Combustion Engine), Electric drive train and REESS(rechargeable energy storage system)

Requirement

- ICE

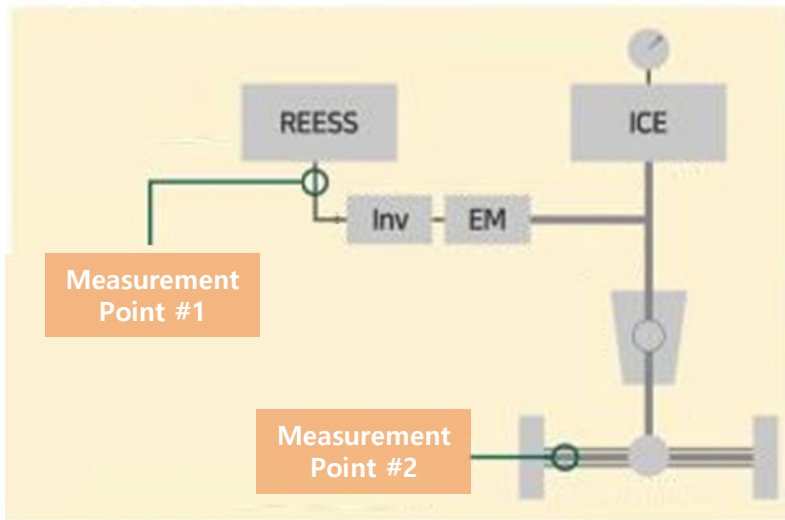
Items	Tolerance (Initial Registratio)	Reference (UN R85)	Market Surveillance	Reference (UN R85, CoP)
Max. Power	±2 %	±2 %	±5 %	±5 %
Torque	±4 %	±4 %	±5 %	±5 %
RPM	±1.5 %	±2 %	±5 %	±5 %

- Electric drive train

Items	Tolerance (Initial Registratio)	Reference (UN R85)	Market Surveillance	Reference (UN R85, CoP)
Max. Power	±5.0 %	±2 %	-5 %	±5 %
30 Min. Power	±5.0 %	±2 %	-5 %	±5 %
Torque	±5.0 %	±4 %	-5 %	±5 %
RPM	±2.0 %	±2 %	-5 %	±5 %

Stance for Applying System Power Determination of Korea

- Draft Rules on the System Power Determination (UN GTR No.21)
 - Scope (draft) : (3.5 tons or less) Hybrid vehicles and
Pure electric vehicles(more than one propulsion energy converter)
- Test facilities



Study Results (for reference)		
KMVSS No.106		Draft Rules
ICE	Motor	System Power
77kW	32kW	99kW

- Current States
 - Prepared draft rules and facilities for introduction / Monitoring changes for harmonization