

Measurement of REESS Voltage

Current

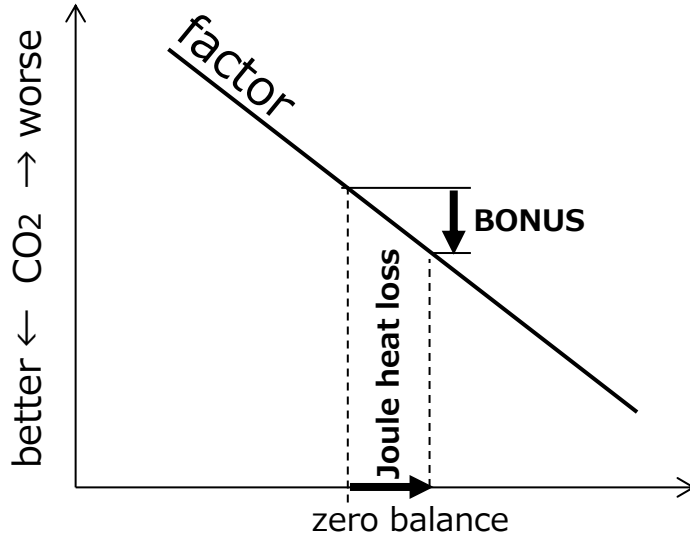
Parameter	Vehicle category	Annex 8 / Appendix3			remarks
		3.1. External measurement	3.2. Nominal	3.3. ECU data	
Family definition	NOVC-HEV		✓		
	OVC-HEV		✓		
	NOVC-FCHV				
	PEV		✓		
Compensation Criteria	ICE		✓		Annex 6 / Appendix 2 4.1.
REESS balance	NOVC-HEV	✓	✓	✓	
	OVC-HEV(CS)	✓	✓	✓	
	NOVC-FCHV	✓	✓	✓	
	PEV				
Break-off criterion	OVC-HEV(CD)	✓	✓	✓	
Range	NOVC-HEV				
	OVC-HEV	✓	✓	✓	
	NOVC-FCHV				
	PEV	✓		✓	
Electric consumption	NOVC-HEV	✓	✓	✓	
	OVC-HEV	✓	✓	✓	
	NOVC-FCHV				
	PEV	✓		✓	
method		IEC 60050-482			

Proposal

Parameter	Vehicle category	Annex 8 / Appendix3			remarks
		3.1. External measurement	3.2. Nominal	3.3. ECU data	
Family definition	NOVC-HEV		✓		NO CHANGE
	OVC-HEV		✓		
	NOVC-FCHV				
	PEV		✓		
Compensation Criteria	ICE		✓		
REESS balance	NOVC-HEV	✓	✓	✓	ONLY FIXED VOLTAGE is ALLOWED
	OVC-HEV(CS)	✓	✓	✓	
	NOVC-FCHV	✓	✓	✓	
	PEV				
Break-off criterion	OVC-HEV(CD)	✓	✓	✓	
Range	NOVC-HEV				NO CHANGE
	OVC-HEV	✓	✓	✓	
	NOVC-FCHV				
	PEV	✓		✓	
Electric consumption	NOVC-HEV	✓	✓	✓	
	OVC-HEV	✓	✓	✓	
	NOVC-FCHV				
	PEV	✓		✓	
method			IEC 60050-482		

[Justification] why instantaneous voltage shall NOT be used ?

→ get CO₂ BONUS by a couple of percentage (next slide)



REESS balance (current × **voltage**)

NEDC : only high voltage battery is applicable for REESS balance compensation

→ **only current** measurement is OK

WLTP : all batteries are applicable for REESS balance compensation

→ **both current and voltage** measurement is necessary

CO₂ Impact of REESS Voltage Measurement

AVERAGE (N=24)

: 2.65%

MAX

: 3.81%

