

Virtual Mileage Testing Method

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China

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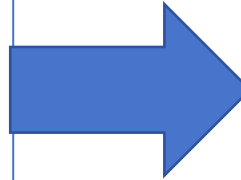
■ Background

Test methods in GTR2

The verification procedure use case including the **minimum amount of discharged energy corresponding to at least 50 km virtual distance.**

If 50 km virtual distance cannot be reached with a fully charged battery, virtual distance required for verification shall be set to a value recommended by the manufacturer.

Question?



The description is not clear, and there are no specific testing requirements.

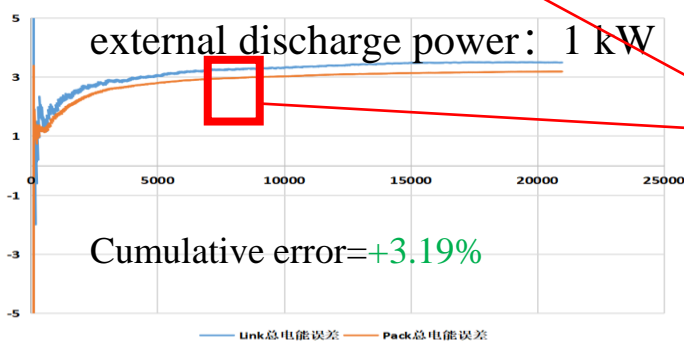
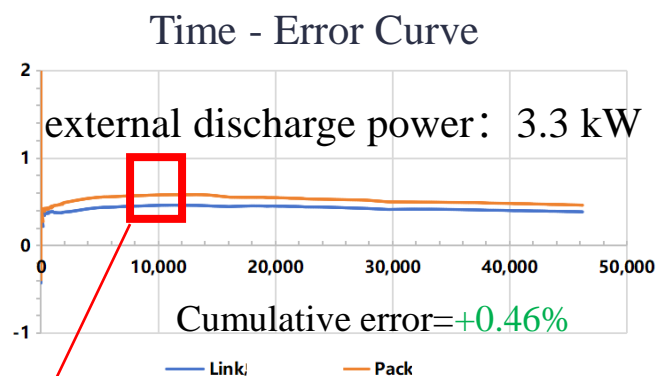
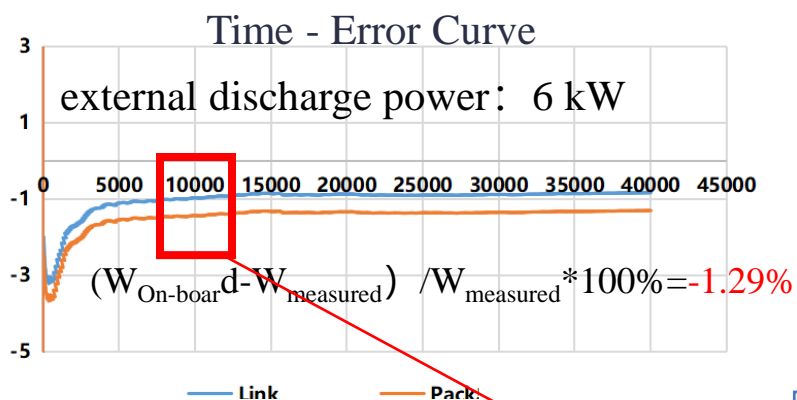
For example:

1. vehicle status requirement: the initial SOC value
2. Test environment requirements: environmental temperature
3. requirement for the power output to the outside: different discharge powers affect the calculation accuracy
4. The 50km requirement is difficult to achieve in the experiment.

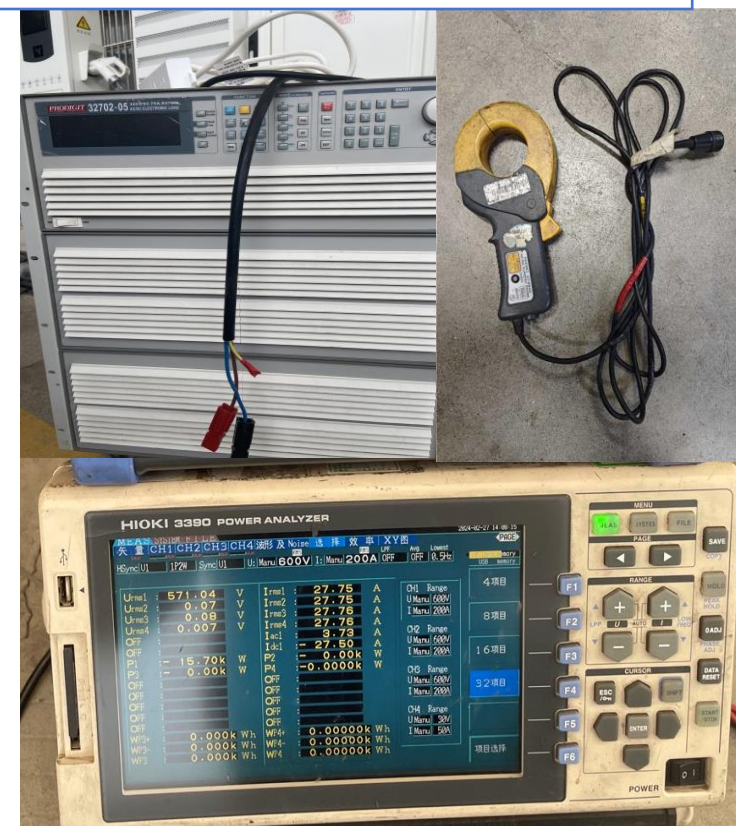
■ Test verification

Testing method

We selected one vehicle and set different external discharge powers. The tests were conducted under normal temperature conditions, and the deviation between the measured and the on-board discharge capacity was calculated.



- ❑ The external discharge power affects the test accuracy. Therefore, the maximum external discharge power should be selected.
- ❑ After the external discharge lasts for 2 hours, the error area becomes stable. Therefore, it is recommended to choose a discharge time of 2 hours.



■ A New Testing Method of V2X

Testing method proposed by China

——The laboratory temperature should be set at $23 \pm 5^{\circ}\text{C}$

——Before the test, the vehicle's SOC should not be lower than 95%

——During the test, only one V2X function is enabled, the external discharge power is set to **the maximum**

discharge power, and the discharge is continued for **2 hours** before stopping (or the discharge is stopped at the cut-off voltage), and the discharge amount during the V2X period is recorded.