

FREEZE FRAME DATA

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HINT:

The freeze frame data record the operating conditions of the HV battery system and components when the DTC was set. It is used for estimating or simulating the condition of the vehicle when the malfunction occurred.

- Connect the hand-held tester to the DLC3.
- Turn the power switch ON (IG).
- Turn the hand-held tester ON.
- Select the following menu items: DIAGNOSIS / OBD/MOBD / HV BATTERY / DTC INFO / TROUBLE CODES.
- Select a DTC in order to display its freeze frame data.
- Check the freeze frame data of the DTC that has been detected.

Freeze frame data

Hand-held Tester Display	Measurement Item/Range	Suspected Vehicle Status When Malfunction Occurs
BATTERY SOC	Battery state of charge/ Min.: 0 %, Max.: 100 %	State of charge of HV battery
DELTA SOC	Difference between maximum and minimum values of SOC at every battery block/ Min.: 0 %, Max.: 100 %	SOC variance
IB BATTERY	Current value of battery pack/ Min.: -327.68 A, Max.: 327.67 A	Charging/discharging condition of HV battery • Discharging amperage indicated by a positive value • Charging amperage indicated by a negative value
BATT INSIDE AIR	Temperature of inhalation ambient air into battery pack/ Min.: -327.68°C, Max.: 327.67°C	Temperature of inhalation ambient air into battery pack
VMF FAN VOLTAGE	Battery blower motor voltage/ Min.: 0 V, Max.: 25.4 V	Actuation condition of battery blower motor
AUX. BATT V	Auxiliary battery voltage/ Min.: 0 V, Max.: 25.4 V	Condition of auxiliary battery
WIN	Charge control wattage which is sent from battery ECU to HV control ECU/ Min.: -64 kW, Max.: 0 kW	Charge wattage of HV battery
WOUT	Discharge control wattage which is sent from battery ECU to HV control ECU/ Min.: 0 kW, Max.: 63.5 kW	Discharge wattage of HV battery
COOLING FAN SPD	Battery blower motor drive mode/ Min.: 0, Max.: 6	Stopped: 0 Low to high speed actuation: 1 to 6
ECU CTRL MODE	ECU control mode/ Min.: 0, Max.: 4	Operating condition of HV battery
SBLW RQST	Battery blower motor stop control request (standby blower)	Presence of stop control request to battery blower motor
BATT TEMP 1 to 3	Temperature of HV battery/ Min.: -327.68°C, Max.: 327.67°C	Temperature of HV battery
V1 to V14 BATT BLOCK	Battery block voltage/ Min.: -327.68 V, Max.: 327.67 V	Voltage variance among battery blocks