



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 23-012
Date Opened: 07/03/2023
Investigator: Laura Nelson **Reviewer:** Peter Kivett
Approver: Tanya Topka
Subject: Loss of Motive Power

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Kia America, Inc.
Products: 2022 EV6
Population: 19,824 (Estimated)
Problem Description: Consumers report experiencing a reduced or complete loss of motive power during vehicle operation increasing the risk of a crash.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	11	TBD	11
Crashes/Fires:	0	TBD	TBD
Injury Incidents:	0	TBD	TBD
Number of Injuries:	0	TBD	TBD
Fatality Incidents:	0	TBD	TBD
Number of Fatalities:	0	TBD	TBD

ACTION / SUMMARY INFORMATION

Action: Open this Preliminary Evaluation (PE)

Summary:

The Office of Defects Investigation (ODI) has received 11 consumer complaints alleging a loss of motive power in 2022 Model Year Kia EV6 vehicles. Many consumers report a loud pop noise followed by a warning displayed in their dashboard and immediately experience a loss of motive power that ranges from a reduction to a complete loss of motive power. ODI conducted several owner interviews confirming a range of loss of power and varying time intervals between the warning message and loss of power.

There is a strong correlation between the loss of motive power events and the failure of the vehicle's ICCU (Integrated Control Charing Unit) that is responsible for powering both the HV (High Voltage) battery and the LV (low voltage) 12V battery. Preliminary review indicates over-current within the ICCU (Integrated Control Charing Unit) can damage transistors (FET) in the LDC (DC-to-DC converter) resulting in the inability to recharge the 12V battery.

ODI is opening this Preliminary Evaluation (PE) to determine the scope and severity of the potential problem and to fully assess the potential safety-related issues.

The ODI reports cited above can be reviewed at:

<http://www-odi.nhtsa.dot.gov/owners> SearchNHTSAID using the following complaint identification numbers: 11529045, 11528221, 11527811, 11527626, 11527585, 11526814, 11525388, 11522379, 11520591, 11520467, 11518378