



U.S. Department of Transportation  
**National Highway Traffic Safety Administration**

# ODI RESUME

OFFICE OF DEFECTS INVESTIGATION



**Investigation:** PE23011  
**Prompted By:** VOQ Review  
**Date Opened:** 06/08/2023      **Date Closed:** 04/17/2024  
**Investigator:** Erin Johnson      **Reviewer:** Peter Kivett  
**Approver:** Tanya Topka  
**Subject:** Loss of Motive Power

## MANUFACTURER & PRODUCT INFORMATION

**Manufacturer:** Hyundai Motor America  
**Products:** 2022 Hyundai Ioniq 5  
**Population:** 48,465 (Estimated)

**Problem Description:** Loss of Motive Power

## FAILURE REPORT SUMMARY

	ODI	Manufacturer	EWR D&I	Other	Total	EWR Field Reports
<b>All Incidents:</b>	74	83	0	49	206	CONF
<b>Crashes/Fires:</b>	0	0	0	0	0	0
<b>Injury Incidents:</b>	0	0	0	0	0	0
<b>Number of Injuries:</b>	0	0	0	0	0	0
<b>Fatality Incidents:</b>	0	0	0	0	0	0
<b>Number of Fatalities:</b>	0	0	0	0	0	0

**Description of Other:** Hyundai Warranty Claims

## ACTION/SUMMARY INFORMATION

**Action:** This (PE) Preliminary Evaluation is closed with a manufacturer action Recall 24V-204.

**Summary:**

On June 8, 2023, the Office of Defect Investigation (ODI) opened PE23011 to investigate allegations of loss of motor power on model year (MY) 2022 Hyundai Ioniq 5 vehicles. Some consumers reported loss of motor power immediately after a warning lamp illumination or reduction of motive power while the vehicle was in motion.

This investigation found that the Integrated Charging Control Unit (ICCU) may be subject to various conditions such as overcurrent, overvoltage induced at the end of charging, and certain thermal loading during operation that can damage its internal components and open the ICCU fuse, resulting in an inability to

charge the 12-volt battery. The vehicle could eventually lose all motive power, increasing the risk of a crash.

In July 2023, Hyundai issued a service campaign to address certain MY 2022-2023 Ioniq 5 and MY 2023 Ioniq 6 vehicles that may have low 12V auxiliary battery charging occurrences due to an ICCU fault and may set the DTC P1A9096 "DC/DC Converter Input Voltage Sensor Fault".

On March 15, 2024, Hyundai filed Safety Recall 24V-204 for 98,878 MY 2022-2024 Hyundai Ioniq 5 vehicles and MY 2023-2024 Hyundai Ioniq 6, Genesis GV60, Genesis GV70 "Electrified" and Genesis G80 "Electrified" vehicles. The recall remedy provides an inspection, and if necessary, a replacement of the ICCU and the associated fuse. The ICCU software reduces the risk of overcurrent and implements voltage peak reduction at the end of EV battery charging. The recall also includes a software update that revises the electric water pump operational threshold to reduce thermal loading during charging and driving.

In view of the recall action being taken by Hyundai, ODI is closing this Preliminary Evaluation. The agency reserves the right to take additional action if warranted by future circumstances. To review the reports cited in the Closing Resume ODI Report Identification Number document, go to [NHTSA.gov](https://www.nhtsa.gov).