



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 23-011
Date Opened: 06/08/2023
Investigator: Ayesha Huertas-Torres **Reviewer:** Peter Kivett
Approver: Tanya Topka
Subject: Loss of Motive Power

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Hyundai Motor America
Products: 2022 Hyundai Ioniq 5
Population: 39,559 (Estimated)

Problem Description: Loss of Motive Power

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	30	TBD	30
Crashes/Fires:	0	TBD	0
Injury Incidents:	0	TBD	0
Fatality Incidents:	0	TBD	0

ACTION / SUMMARY INFORMATION

Action: Open this Preliminary Evaluation (PE)

Summary:

The Office of Defects Investigation (ODI) has received 30 consumer complaints alleging a loss of motive power in 2022 Model Year Hyundai Ioniq5 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.

ODI learned from Hyundai that the failure is related to the ICCU (Integrated Control Charing Unit) that is responsible for powering both the HV (Hybrid Vehicle) 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: 11502808, 11503875, 11503875, 11503875, 11507303, 11508521, 11508521, 11509776, 11509784, 11509814, 11509814, 11509852, 11510146, 11511391, 11511391, 11511572, 11511572, 11512088, 11514095, 11514095, 11515582, 11515756, 11515756, 11516145, 11516145, 11516472, 11518336, 11518368, 11518368, 11520155, 11520155, 11520155, 11520367, 11520367, 11520367, 11520754, 11520815, 11521187, 11521187, 11521543, 11521543, 11522548, 11522548, 11522548, 11523025, 11523131, 11523131, 11523423, 11523423, 11523423, 11523775 and 11523775.