

## **ICCU : Hyundai Mobis for Hyundai IONIQ5 (EU model) Circuit Analysis Report**

ICCU: Integrated Charging Control Unit



**Hyundai Mobility IONIQ5**

Reference :  
<https://www.hyundai.com/jp/ioniq5>



**ICCU**

### **Overview**

Hyundai IONIQ5 is equipped with an integrated power management device called ICCU (Integrated Charging Control Unit) that has functions such as OBC, V2L, and DCDC converters for 12V batteries.

LTEC released the report of PCB circuit analysis of the main path of the OBC (bidirectional) and DCDC converter.

### **Product characteristics**

- The target product is the ICCU for the EU market with 3-phase AC input, battery voltage 697V, and OBC maximum output 11kW.
- Input voltage: 3-phase 4-wire (for EU, 230VAC)
- V2L maximum output: 3.6kW (for EU, 230VAC), bidirectional charging system
- The DCDC converter for 12V battery is used an active clamp forward converter.
- Discrete type 1200V SiC MOSFETs manufactured by ST Microelectronics and ROHM insulated gate driver IC are used

### **Report content (84 pages)**

- Teardown process
- Components list
- Component size and weight measurement
- Main path schematic

### **Report price**

**Delivered one week after order placement**

**Please contact us for report pricing.**

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