

## OBC + DCDC: Renault 5 E-Tech electric Bi-directional OBC(V2G) Teardown Report



Renault 5 E-Tech electric

<https://www.renault.co.uk/electric-vehicles/r5-e-tech-electric.html>



Unit Appearance

### Report overview

As part of the growing trend to utilize EV/PHEV batteries, applications such as V2H (Vehicle-to-Home) and V2G (Vehicle-to-Grid) power infrastructures are expected to expand in the coming years. Renault Group's Mobilize has begun production of V2G-compatible chargers for EVs and PHEVs. Mobilizer's V2G service will be launched in France and Germany in 2024, followed by the United Kingdom in 2025. The new Renault 5 E-Tech will be the first compatible vehicle, and we are releasing a teardown report of its On-Board Charger (OBC) in this context.

### Product Features

- Manufactured by EVTECH
- AC charging power capacity: 11 kW, DC fast charging power capacity: up to 100 kW
- Compatible with V2G (Vehicle-to-Grid) and V2L (Vehicle-to-Load)
- Equipped with a capacitor board and reactor between the upper and lower boards; features AC1 and DC3 terminals and a DC port on the side
- The main board is populated with SiC MOSFETs manufactured by STMicroelectronics and Wolfspeed

### Report contents

- \*62-page report
  - Product teardown process
  - Component weight and size information
  - Identify key semiconductors
  - Board-to-board connections

### Report price

Delivered one week after order placement. Please contact us for report pricing.

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