

Product note

RoadPak module

SiC performance

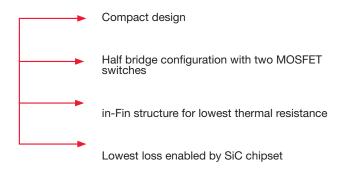
Hitachi Energy's SiC e-mobility module pushes the boundaries of power density and reduces stray inductance to new levels.

Hitachi Energy's power semiconductors provide unsurpassed reliability and outstanding quality. Failure is not an option when driving electrical motors, ensuring smooth acceleration of trains, or transmitting gigawatt power over long distances and underwater. RoadPak is the first module for e-mobility applications in our proven portfolio of power semiconductors that takes advantage of silicon carbide (SiC) technology.

RoadPak benefits

The key benefit is the high-current rating in a small package that is enabled by the use of SiC, combined with very small stray inductance and high reliability. The RoadPak will be certified according to IATF19646 and will be AQG 324 qualified.

Features SiC MOSFET transistors









Typical applications

• Electric cars

Scalable current and power ratings in the RoadPak support inverter platforms of various e-cars

• Trucks

High power in a small package allows efficient inverter design

• Public transport

High reliability for the typical stop-and-go operation of e-buses and trams

Aviation

Performance and reliability to meet the demands of a wide range of aviation applications

• Charging

Delivers performance to enable fast charging of trucks and buses

Available ratings

Configurations	Current (A) Max. chip rating	Voltage (V)
Half bridge	660	750
Half bridge	880	750
Half bridge	1100	750
Half bridge	580	1200
Half bridge	780	1200
Half bridge	980	1200



RoadPak

Our innovative solution for all e-mobility applications

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