

## Electric Smart Switch

**KYOCERA AVX's On Board Power Switch enables fast, safe and noiseless disconnection with high-performance electric vehicle batteries.**

E-mobility is changing the future of transport. This technology change is a global trend, and between 2020 and 2030 should become a reality for a broad base of consumers. For several years now, hybridization of vehicles has been rolling out across the fleets of many car manufacturers, and continued progress is expected. During the start/stop-mode the electronic power switch for hybrid vehicles disconnects the start battery from the support battery of the power circuit.

**KYOCERA AVX's On Board Power Switch achieves high power density in a small package volume**

The powerful On Board Power Switch disconnects the battery of an electric car from the power train in a fast, safe and noiseless way. Bare die semiconductors are directly attached to rigid aluminum metal substrates, produced using thick film technology. The switch is located directly between the battery positive terminal and the load, and controls current flow in both directions.

## Electric Smart Switch HV

**Semiconductor HV battery disconnect module**

Solid State Battery switch for fast, safe and noiseless connection and disconnection with high-performance electric vehicle batteries

### Special Features

• 750 V or 1200 V – up to 750 A	• Silicon carbide semiconductors
• Integrated Gate driver	• Low inductive package design
• Over-current detection	
• Pre-charging capability	
• Small footprint	
• Scalable circuit design	
• ECPE AQC 324 qualified	

### Key Technologies



Package: 164 mm x 107 mm x 30 mm

## Electric Smart Switch 48V

### Special Features

• 80 V – up to 500 A cont.	• Aluminium busbars
• Pre-charging capability	• Low inductive package design
• Small footprint	• Transfer molding
• Scalable circuit design	
• ECPE AQC 324 qualified	

Package: 102 mm x 60 mm x 7 mm

