

Experts in power electronics

As an independent system supplier SILVER ATENA develops safety-relevant electronic systems for applications in the aerospace & defence, aero engines and automotive industry. Services include system development, hard- and software development, implementation, testing and qualification. We apply established methods and processes to guarantee high-voltage and functional safety. Based on years of experience in the development of complex control units, the company is also a vendor of customised, modular hardware-in-the-loop test systems (HIL), which solve client's product validation tasks. These services are completed by system, process and technology consulting services.

As a system supplier we develop solutions that meet the challenges of e-mobility from smart charging via power management to drive systems and auxiliary units. We take over single work packages or the overall responsibility for products



300 V converter for the precise control of a brushless DC motor



1.5 kW from 12 V: Control unit for an active roll stabiliser.

such as inverters, converters or motor control units. Prototypes during development phases as well as series products can be supplied by SILVER ATENA. SILVER ATENA has been working in power electronics intensively for many years. Results among others are a power control unit for the Formula 1, a 60 kW recuperation and boost system (KERS – Kinetic Energy Recovery System) with an efficiency of more than 95%. In addition a control unit family suitable for voltages ranging from 12 V up to 600 V has been developed for high-speed-rotating electrical motors, which are used in active roll

stabilisers, pumps, fans or compressors, for example. SILVER ATENA's most recent development in this domain is a high voltage DC/DC converter with 450 V/ 550 A and more than 100 kW power.

As part of a test house concept, the company also offers in-house testing capacity, which is already used by well-known customers.