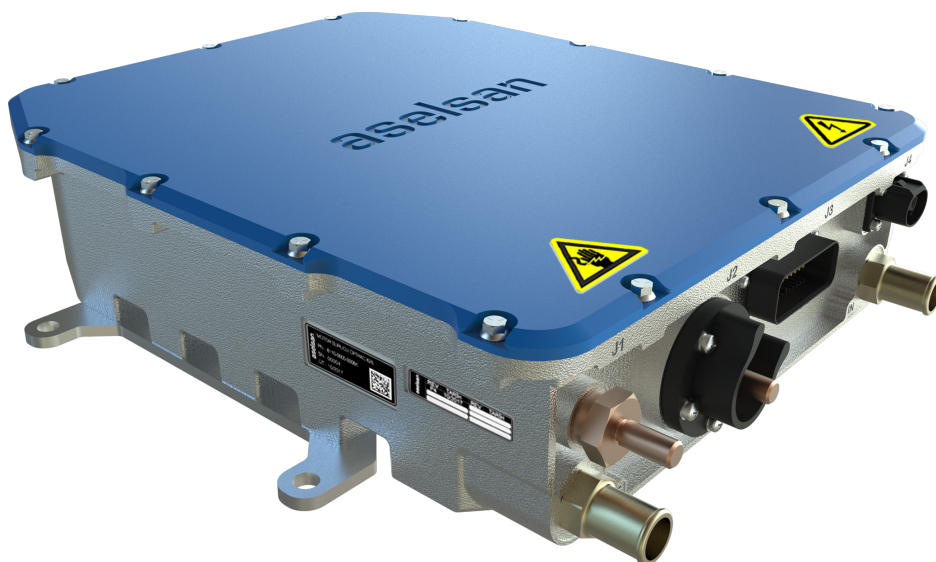


# HVDC-5K6

## BIDIRECTIONAL DC/DC CONVERTER FOR HYBRID/ELECTRIC VEHICLE APPLICATIONS



### Product Description

ASELSAN's HVDC Series is a family of converter units in different power levels developed from a unique technology platform.

The HVDC-5K6 is designed as a modular electrical automotive drive system and same housing with OPTRAC-603D auxiliary inverter. All solutions are scalable, as well as being easy and safe to handle. It is a compact, rugged high performance, high intelligence and liquid-cooled charger unit for hybrid/ electric vehicles.

### Typical Applications

- Battery Charger
- On-board Power Supply

### Product Features

- Bidirectional operation
- Wide bandgap semiconductor SiC based design
- High efficiency (>96%) at full load
- High power capability with modular parallelizable structure
- J1939 or CANopen interface options
- Analogue inputs and discrete IOs
- Active/passive discharge
- Overvoltage, overcurrent and over temperature protection
- Galvanic isolation between HV and LV
- High Voltage Interlock (HVIL)
- Complies with all EMC requirements
- Automotive qualified components
- High IP protection

# HVDC-5K6

## BIDIRECTIONAL DC/DC CONVERTER FOR HYBRID/ELECTRIC VEHICLE APPLICATIONS

### Specifications

Input Voltage Range	: 450-900 VDC
Output Voltage Range	: 16-32 VDC
Continuous Power	: 5.6 kW
Efficiency	: > 96 %
Control Voltage Range	: 16-32 VDC

### Standards

Automotive Components	: AEC-Q100 / Q101 / Q200
Electromagnetic Compatibility (EMC)	: ECE R10, Rev. 4

### Thermal & Mechanical Data

Max inlet cooling temperature	: 65 °C
Nominal cooling flow	: 10 lt/min
Coolant type	: 50/50 Water-Glycol
Weight	: 11 kg
Operational Temperature	: -40 °C / +85 °C
Storage Temperature	: -40 °C / +125 °C
Sealing	: IP65

### Dimensions

