

HV-DCDC Converter

Reliable High-Voltage to Low-Voltage Conversion

Our 400V-12V HVDC-DC converter is a compact and efficient solution for stepping down high-voltage DC power to a stable 12V output. Designed for demanding customer specific applications in electric vehicles, it features high conversion efficiency, galvanic isolation, and robust protection mechanisms. With a wide input voltage range and consistent 12V output, it's ideal for powering control units, sensors, and other low-voltage components in high-voltage environments. Designed with ASIL C functional safety and ISO 21434 cybersecurity compliance, the converter meets modern automotive standards for safety and data protection. Its consistent 12V output makes it perfect for powering ECUs, sensors, and other low-voltage components in high-voltage systems.

Cooling	Liquid
HV Voltages	190V-470V
LV Voltages	6V-16V
Power	3,7kW (Peak 4,1kW)
Efficiency	up to 95%
Weight	<5kg
Current	265A (Peak 295A)
Temperatures	-40°C to 105°C
FuSa	ISO 21434, 26262, ASIL C

