



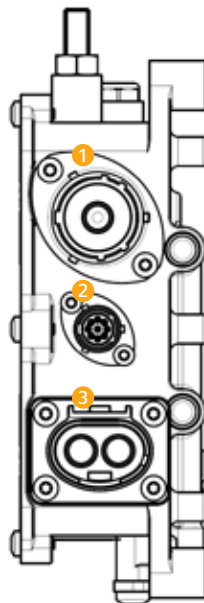
800V Motorsport DC/DC Converter

General description

Continental Engineering Services (CES) encompasses all aspects of electrification including DC/DC Converters for the motorsport area. This high-end 900W DCDC converter is a small and light weight, liquid cooled unit offering exceptional efficiency for electric and hybrid racing applications. To achieve the maximum efficiency with minimal cooling, a phase-shifted full-bridge DCDC topology has been employed. It is compliant with FIA Safety Regulations. A 48V output and different power levels are also available on request.

Specification

- Type: Step-Down DCDC Converter
- Dimensions: 153 x 113 x 45 mm*
- Mass: 0.74 kg
- Input Voltage: 500V to 950V DC
- Output Voltage: 15VDC
- Peak Output Current: 80A
- Power Level:
 - 1.2 kW (Peak)
 - 0.9 kW (Continuous)**
- Efficiency: Peak >97%
- Cooling: Water***
- Control: CAN
 - Current Limit
 - Voltage Setpoint
 - Active Discharge Request
- Environmental Sealing: IP67
- HVIL (High Voltage Interlock Loop)
- Active Discharge



Connector Information

(2) LV Signal Connector: ASDD006-09-PN

Pin	Signal
1	LV Supply
2	Ground
3	CAN High
4	CAN Low
5	Enable
6	Not Used
7	Not Used
8	HVIL +
9	HVIL -

(1) LV Output Connector: ASHD0-14-1PN

Pin	Signal
A	LV Positive

(3) HV Input Connector: PL082X-61-2.5

Pin	Signal
1	HV Negative
2	HV Positive

Suitable For: Formula E Season 5 onwards,
LMP1 Hybrid, Formula 1, HEV/EV Race Applications

*excluding connectors

**continuous power output at 65°C coolant temperature

***optional monitoring of pressure drop across unit

