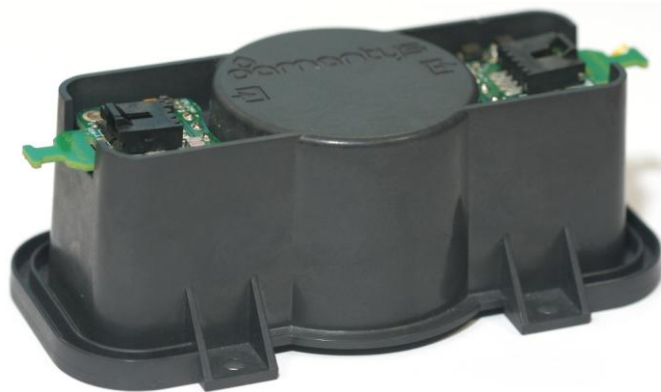


The isolated DC-DC Converter is a high isolation power supply intended for use with high isolation voltage IGBT modules such as the 3300V, 4500V and 6500V 190x140mm packages. The DC-DC converter features include: a maximum power output of 15W and a peak efficiency of up to 90% and it can be configured to accept a 15V or a 24V input for compatibility with a wide range of applications. The isolated DC-DC Converter also features overload, short circuit protection and input overvoltage resilience.



### Key Benefits

- High power output, high efficiency design
  - Drive multiple gate drives from one power supply
  - Low no-load power dissipation
  - Peak efficiency 90%
- Robust design
  - Operating temperature range -40°C to +85°C
  - Strain relief option for connecting cables
- Protection features
  - Overload and short circuit protection
  - Input overvoltage protection
  - Input reverse polarity protection
- High reliability design and testing
  - Manufactured to ISO9001
  - Designed and tested to international standards for rail and motor drives
  - Conformal coating available on request

### Outline Specification

- Input voltage configurable for 15V or 24V
- 15V nominal input
  - Input voltage range 13V to 20V
  - Output voltage 22V (no load)
  - Power output 8W (15V input, 16.5V minimum output)
- 24V nominal input
  - Input voltage range 20V to 30V
  - Output voltage 26V (no load)
  - Power output 15W (24V input, 16.5V minimum output)
- Coupling capacitance 3.0pF
- Creepage and clearance to IEC 61800-5-1
- Protection features
  - Overload and short circuit protection
  - Input overvoltage resilient
  - Overvoltage indication LED
- LED status indication



Medium voltage  
motor drives



Locomotive traction  
& marine drives



Wind turbine &  
solar inverters



High voltage DC  
infrastructure

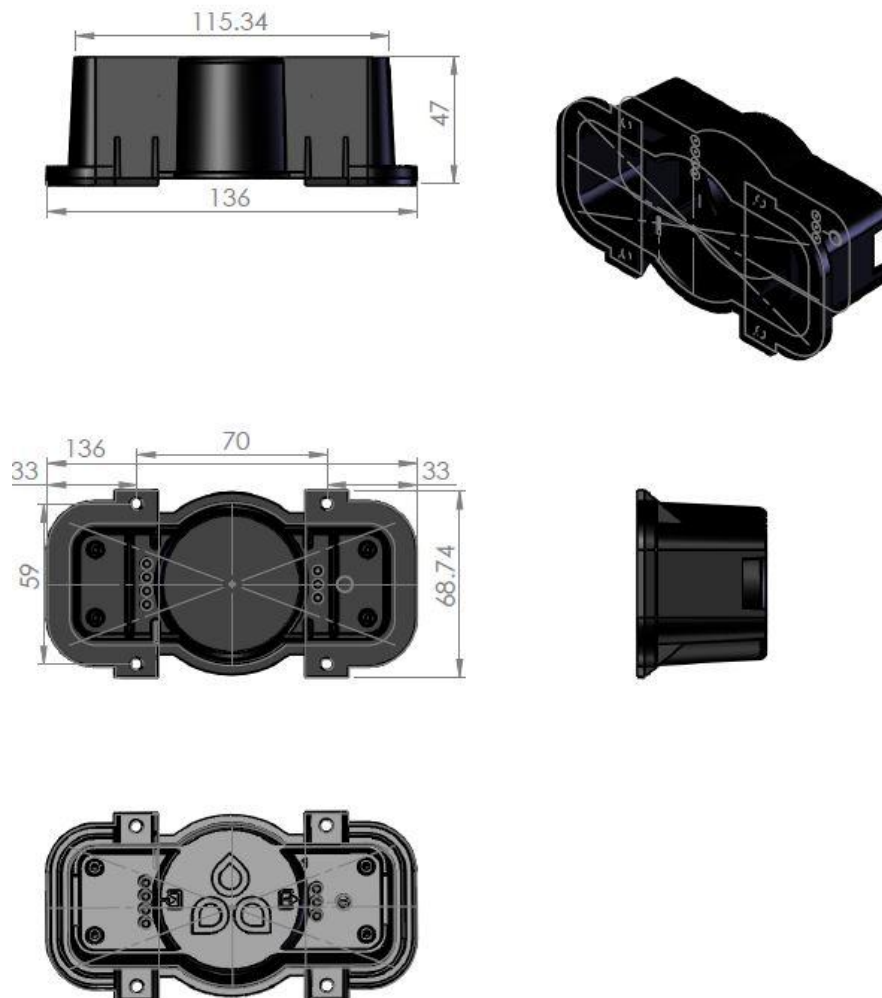
## Applications

- Railway traction applications
  - Traction motor drives
  - Trackside converters
- HVDC infrastructure
- Medium voltage converters
- Medium voltage motor drives
- Wind turbine inverters

## Standards Compliance

- Designed to EN 50155 for railway applications
- Designed to IEC 61800-5-1 for variable speed drives
- Mechanical shock and vibration tested to IEC61373
- EMC tested to EN 50121-3-2, EN 50121-5, IEC 61800-3
- Material flammability rating to UL94V-0

## External Dimensions



Medium voltage motor drives



Locomotive traction & marine drives



Wind turbine & solar inverters



High voltage DC infrastructure