

EPS series DC/DC Trainborne Converter

The EPS series of DC/ DC conveter provides stable and reliable DC to DC power conversion for Train Application.

It meets most train shock, vibration and EMC standards with CE marking on the converter module itself



Conveter module

Features

- Compact DC/DC power modules
- Wide variety of Input and Output options
- High power density
- Natural conduction air cooled
- (N+1) parallel redundant options available



Conveter in IP54 enclosure



Conveter in 19" cassette

Technical specifications

| Output Power | 50W | 75W | 100W | 150W | 300W |
|-------------------------------|--|-----|------|------|------|
| Input | 24Vdc input (18 to 36Vdc) / 48Vdc (36 to 72Vdc) / 110Vdc input (77 to 185Vdc) / 280Vdc input (200 to 400Vdc) | | | | |
| Output voltage | 3.3 / 5 / 12 / 15 / 24 / 28 Vdc, ±1% accuracy | | | | |
| Output voltage range | ± 10% (adjustable By TRM terminal and external resistor) | | | | |
| Efficiency | 70% for 3.3Vdc output to >80% for other output options | | | | |
| Line regulation | 0.4%, Wthin nominal input voltage range @ constant load | | | | |
| Load regulation | 0.8% , No load to Full load @ constant input voltage | | | | |
| Cooling | Natural conduction cooled, convection cooled for modules with housing and/or heatsink | | | | |
| Withstand voltage | Input to Output: 2KVAC | | | | |
| Isolation resistance | More than 100MΩ @ 25°C & 70%RH, Output to Baseplate: 500Vdc | | | | |
| Safety standard | Comply to EN60950 | | | | |
| EMC standard | Comply to VCCI Conducted/ Radiated Class A | | | | |
| Shock and Vibration standard | Comply to IEC571 | | | | |
| IP protection | In accordance to enclosure option, IEC529 IP00 to IP54 | | | | |
| Protection | Input/ Output fuse, Over-voltage protection, Over-current, Thermal protection, Tropical protection | | | | |
| Operating ambient temperature | -10°C to +60°C, Output derating for higher temperature | | | | |
| Relative Humidity | Up to 95%, Non-condensing | | | | |