



RAIL AT SEAT SOCKET POWER SUPPLY -DIESEL & ELECTRIC MULTIPLE UNITS DC-AC & AC-AC CONVERTERS

Key Features

- ✓ Naturally cooled – no routine maintenance required
- ✓ High reliability due to proven design
- ✓ Qualified and certified for shock, vibration & EMC
- ✓ Designed and qualified to BS/EN 50155 standards
- ✓ Various mounting options thanks to robust design – cabinet or under seat
- ✓ Compact, lightweight & silent in operation, modular design
- ✓ Highly efficient – i.e. > 90%
- ✓ Available for the following input voltages – 110Vdc, 24Vdc & 240Vac
- ✓ Flexibility of various output voltages – 800W to 3kW
- ✓ Portable Test Equipment (PTE) software option available
- ✓ Separate USB power option available



Input Voltage	110Vdc	24Vdc (20Vdc-34Vdc)	240Vac single phase
Input Protection	Transient and reverse polarity protected	Transient and reverse polarity protected	Transient and reverse polarity protected
Output Voltage	230 Vac \pm 5%, single phase	230 Vac \pm 5%, single phase	230 Vac \pm 5%, single phase
Output Frequency	50 Hz \pm 0.5 Hz	50 Hz \pm 0.5 Hz	50 Hz \pm 0.5 Hz
Output Harmonics	<3 % @ full load, <2% @ 150 Watts load	<3% @ full load	<3 % @ full load
Output Harmonics Monitor	Fitted as standard, shut down on excessive harmonics	Fitted as standard, shut down on excessive harmonics	Fitted as standard, shut down on excessive harmonics
Output Power Maximum	3.0kW (RCBO limited to 2.3kW)	700W	3.0kW (RCBO limited to 2.3kW)
Output Overload	3.1kW shut down after 30s	1.1 x rated power for >30s	1.2x rated power for 30 secs
Galvanic Isolation Input / Output	1.5kVac rms for 1 minute	1.5kVac rms for 1 minute	2kVac rms for 1 minute
Ambient Temperature	-25°C to +40°C	-25°C to +55°C	-25°C to +40°C
Efficiency	>85% @ full load	>92 % at 700W / 86% at 350W	>85% @ full load
Weight	21 to 31 Kgs depending on version	<6 Kgs	31 Kgs
PTE Diagnostics	No	Yes	Yes
Space Envelope	Subject to choice of variant	Subject to choice of variant	Subject to choice of variant

Over 1200 units of our At Seat Power Supply products have been installed in trains all over the UK. This trusted product is suitable for both new-build and refurbishment projects, and is fully compliant with rail standards and regulations. Multiple input and output voltage options are also available depending on your requirements, but each product consistently performs to BS/EN 50155 standards.

All passengers can charge their mobile phone or laptop fast and efficiently, whilst on the move. Passengers can work or play throughout the journey, and most importantly, leave the train with a fully charged laptop and phone to continue on their day's business. To ensure this, it is essential that you choose the right power supply provider.

With over 40 years rail pedigree, a team of highly skilled engineers and technicians with experience and track record in creating world-class power electronic products, our At Seat Power Supply product will ensure all rail operators whatever the weather, will not spoil your customers journey.

We will be happy to discuss your project or enquiries, please contact our marketing department at marketing@turbopowersystems.com to get in touch or ring us on +44 (0) 191 482 9288/9251/9278.



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