



SCHAFFLER
www.railwayinverter.com

HEADLIGHT POWER CONVERTER

Input: 74V OR 110V DC (nominal)
Output: 68V for high beam, 32V for low beam (adjustable)
Power: 800W



Key features:

- *Small, light-weight*
- *Reliable*
- *Efficient*
- *Shock & Vibration tested*
- *Adjustable output*

Many locomotives use the old method of connecting large resistors (example right) in series with headlights to reduce the brightness for low beam operation. This has two major drawbacks: inefficiency and unreliability. The system is inefficient because the resistors simply waste power by dissipating it as heat. The system is unreliable because the resistors burn out and need to be replaced.



The SCHAFFLER Headlight Power Converter is a small, efficient unit for controlling power to locomotive headlights. Two 350W globes are provided with 68V for high beam or 32V for low beam. These output voltages can be adjusted to specific requirements where non-standard globes are used. The input to the unit is at battery voltage so it can accommodate a range from 58V to 82V for 74V batteries or 90V to 132V for 110V batteries.

The Headlight Power Converter weighs only 500g and is only 26cm long. The unit can thus be mounted in tight spaces including behind the headlights or inside a dashboard.

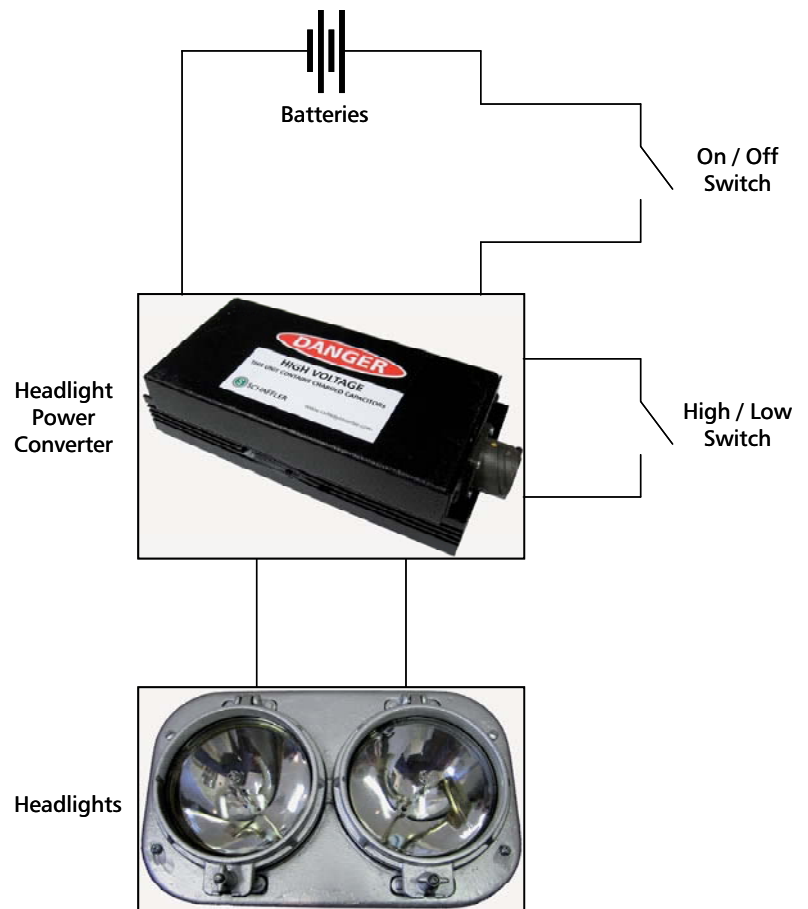
Schaffler & Associates Pty Ltd
Unit 4, 4 Prosperity Parade
Warriewood NSW 2104
p | 02 9997 1010
f | 02 9997 8996



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Headlight Power Converter

Input voltage	74V DC or 110V DC (nominal)
Output voltage	68V for high beam, 32V for low beam (standard) Other voltages may be specified to order.
Output power	800W
Output regulation	±2%
Operating Temperature	Up to 55°C
Enclosure	Fitted on self-ventilated heatsink and enclosed
Connections	Military-style plug
Protection	Over temperature Over current Reverse connection Short circuit
Dimensions	260mm (L) x 110mm (W) x 70mm (H)
Weight	500g



Standards

EN 50155	Electronic equipment used on rolling stock
IEC 1287-1	Power converters installed on board rolling stock
EN 50121-3-2	Electromagnetic Compatibility
IEC 61000-4-3	EMC standard
IEC 61373	Railway application rolling stock equipment: Shock and vibration testing
BRB/RIA-12	British Rail Standard for transients and surges
AS 3000	Wiring regulations

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