

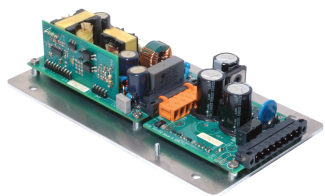


## DC/DC converter for railway applications

VER standard version



VER enhanced version



### Description

The VER series is a range of cost effective, medium power, single output converters. Featuring a very small footprint, the standard version complies fully with the latest rail specifications and norms for protection and EMC. For applications requiring compliance with class S2 supply interruptions (10ms hold-up time), an enhanced version is available which also adds active inrush current limiting and output health indication.

### Special features include:

- Very compact, lightweight and cost effective
- High efficiency
- Each model covers two nominal vehicle battery voltages
- Standard and Enhanced versions available
- Fully compliant with rail standards, including EN50155 & EN50121.3.2

### Input specifications

The following input voltages versions are available as standard:

- 72 / 110V (50.4 - 137.5V) dc (Suffix AD)
- 24 / 36V (16.8 - 50.4V) dc (Suffix BF)

### Options

Code	Detail
E	Enhanced version. Adds 10ms hold-up time, active inrush limiting and output good signal.

Part number	Output	
	V <sub>o</sub> [Vdc]	I <sub>o</sub> [A]
VER 1200	12	8.3
VER 1500	15	6.7
VER 2400	24	4.2
VER 3600	36	2.8
VER 4800	48	2.1

Parameter	Detail
Under-voltage switch-off (Customer configurable) (approximate value)	Standard (factory set) configuration Alternate configuration
Input Ripple	Suffix AD    Suffix BF 41V    13V 63V    20V
Input Protection	To EN50155 Reverse polarity protection by shunt diode (external fuse or circuit breaker required). Surges and transients to EN50155 (direct and indirect)
Inrush Current	Standard version: limited by source impedance but duration <0.1ms Enhanced version: limited to typically 5 x nominal current (after 0.1ms)
Efficiency	90% typical
Hold up time	Standard version: EN50155 Class S1 (no interruptions) Enhanced version: EN50155 Class S2 (10ms interruptions)
Input Fuse	Not fitted. External fuse or circuit breaker required.



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