

## VI Series 12V-24V Single Circuit Voltage Boosters.



### FUNCTION

The VI Series converters supply 24VDC from a 12VDC automotive electrical system. Conversion efficiency at full load is approximately 85%, which corresponds with an input current of up to 70A (VI720D). For this reason, sound connections to the 12V battery must be used, keeping the leads short and suitably rated.

### CONNECTIONS

The unit has three connecting wires as shown.

VIOLET WIRE	12V DC Input
BROWN WIRE	24V DC Output
GREEN WIRE	NEGATIVE GROUND (this wire must be grounded)

### SPECIFICATIONS

MODEL	VI180D	VI360D	VI720D
Supply range	12V-15VDC	12V-15VDC	12V-15VDC
Recommended Input Fuse	20A	30A	80A
Output Current Rating	7.5A	15A	30A
Output Voltage	24VDC	24VDC	24VDC
Required Output Fuse	7.5A	15A	30A
Conversion Efficiency	>90%	>90%	>90%
Ambient Temperature Range	-10°C-+50°C	-10°C-+50°C	-10°C-+50°C
Dimensions	110x135x60mm	200x135x60mm	300x135x60mm
Weight	800g	1.1kg	2.0kg
Warranty	2 years	2 years	2 years

### PRECAUTIONS

Connection of the 12V input lead should be via a separate relay operated by the vehicle's accessory (or main electrical) switch, to avoid overloading the switch. The unit should be mounted in a cool sheltered location. If it is to be operated at or near it's full rating, it should be mounted vertical with a free flow of air. The fuses (not supplied) must never be replaced with higher rating fuses. Care must be taken to avoid overloading. The internal electronics are potted in silicone but direct blast of steam cleaning should be avoided.

**FREE TECHNICAL ASSISTANCE** contact Redarc Electronics  
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