



Thunder Series – High Voltage DC to DC Converter



Features

- ♣ Outputs from ± 500 to ± 5000 VDC
- ♣ Miniature Size – Low Profile
- ♣ High Efficiency
- ♣ High Reliability/Long life
- ♣ Short Circuit/Over Current Protection
- ♣ Low output ripple
- ♣ Regulated - No minimum load Required
- ♣ Wide environmental range
- ♣ Custom Designs Available – *consult with factory*

AMI's Thunder broad line of miniature, high voltage dc-dc converters offer regulated high voltage output directly proportional to the input voltage. The Thunder series is encapsulated in high thermal conductivity epoxy resin for use in harsh environmental environments. These single output devices are available in a variety of input and output voltages.

Electrical Specifications

- ♣ Output Regulation.....Proportional
- ♣ Short Circuit Protection.....Yes
- ♣ Output Voltage Tolerance.....5%
- ♣ Output Power 1.5W

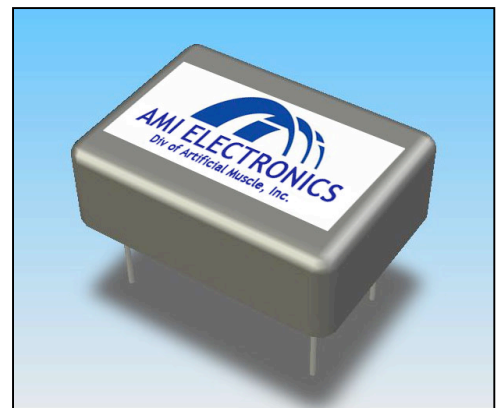
General Specifications

- ♣ Dimensions (typ)...36 x 36 x 8mm
 - ♣ Weight.....25g
 - ♣ Environmental*.....-10° to +60°C
- * Expanded Op Temps available*

Typical Applications

- ♣ Electroactive Polymers
- ♣ Piezo Devices
- ♣ Atomic Force Microscopes
- ♣ Medical Imaging & Electronics
- ♣ Electrophoresis
- ♣ Chromatography Optics
- ♣ Avalanche Photodiodes
- ♣ Sustaining Ion Pumps
- ♣ PMT Mass Spectrometry
- ♣ Ordnance Triggers
- ♣ Electrostatic Chucks

Case Size 'B' Shown



Preliminary – Information Subject to Change

_ AMI Electronics – Div. of Artificial Muscle, Inc. _ 925 Hamilton Ave Menlo Park CA 94025 USA _

_ Tel: 650-331-2890 _ Fax 650-331-2877 _ www.amielectronics.com _ Rev E 4/06

Thunder Series – High Voltage DC/DC Converter

Model Number	Input Specifications			Output Specifications		
	Voltage	No Load Current	Full Load Current	Voltage	Maximum Current	Ripple
T-0505	0-5 VDC	50 mA	670 mA	500 VDC	3 mA	<2%
T-1005	0-5 VDC	50 mA	670 mA	1000 VDC	1.5 mA	<2%
T-1505	0-5 VDC	50 mA	670 mA	1500 VDC	1.0mA	<2%
T-2005	0-5 VDC	50 mA	670 mA	2000 VDC	750 μ A	<2%
T-2505	0-5 VDC	50 mA	670 mA	2500 VDC	500 μ A	<2%
T-3005	0-5 VDC	50 mA	670 mA	3000 VDC	500 μ A	<2%
T-3505	0-5 VDC	50 mA	670 mA	3500 VDC	430 μ A	<2%
T-4005	0-5 VDC	50 mA	670 mA	4000 VDC	375 μ A	<2%
T-4505	0-5 VDC	50 mA	670 mA	4500 VDC	333 μ A	<2%
T-5005	0-5 VDC	50 mA	670 mA	5000 VDC	300 μ A	<2%
T-0512	0-12 VDC	25 mA	280 mA	500 VDC	3 mA	<2%
T-1012	0-12 VDC	25 mA	280 mA	1000 VDC	1.5 mA	<2%
T-1512	0-12 VDC	25 mA	280 mA	1500 VDC	1.0mA	<2%
T-2012	0-12 VDC	25 mA	280 mA	2000 VDC	750 μ A	<2%
T-2512	0-12 VDC	25 mA	280 mA	2500 VDC	500 μ A	<2%
T-3012	0-12 VDC	25 mA	280 mA	3000 VDC	500 μ A	<2%
T-3512	0-12 VDC	25 mA	280 mA	3500 VDC	430 μ A	<2%
T-4012	0-12 VDC	25 mA	280 mA	4000 VDC	375 μ A	<2%
T-4512	0-12 VDC	25 mA	280 mA	4500 VDC	333 μ A	<2%
T-5012	0-12 VDC	25 mA	280 mA	5000 VDC	300 μ A	<2%
T-0524	0-24 VDC	15 mA	139 mA	500 VDC	3 mA	<2%
T-1024	0-24 VDC	15 mA	139 mA	1000 VDC	1.5 mA	<2%
T-1524	0-24 VDC	15 mA	139 mA	1500 VDC	1.0mA	<2%
T-2024	0-24 VDC	15 mA	139 mA	2000 VDC	750 μ A	<2%
T-2524	0-24 VDC	15 mA	139 mA	2500 VDC	500 μ A	<2%
T-3024	0-24 VDC	15 mA	139 mA	3000 VDC	500 μ A	<2%
T-3524	0-24 VDC	15 mA	139 mA	3500 VDC	430 μ A	<2%
T-4024	0-24 VDC	15 mA	139 mA	4000 VDC	375 μ A	<2%
T-4524	0-24 VDC	15 mA	139 mA	4500 VDC	333 μ A	<2%
T-5024	0-24 VDC	15 mA	139 mA	5000 VDC	300 μ A	<2%

Custom Designs available for quantity purchase – Contact Factory

AMI Electronics - Div of Artificial Muscle Inc.

925 Hamilton Ave.
Menlo Park, CA 94025 USA
phone: 650-331-2890
fax: 650-331-2875
www.amielectronics.com

Preliminary – Information Subject to Change

AMI Electronics – Div. of Artificial Muscle, Inc. 925 Hamilton Ave Menlo Park CA 94025 USA

Tel: 650-331-2890 Fax 650-331-2877 www.amielectronics.com Rev E 4/06

