



**FEATURES:**

- RoHS compliant
- Wide 2:1 input range
- High efficiency up to 77%
- Shielded metal package
- Operating temperature -40°C to +71°C
- Input / Output isolation 1500VDC
- Pin compatible with multiple manufacturers
- Continuous short circuit protection

**Models**

**Dual output**

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM5T-1205D-NZ	9-18	±5	±500	1500	75
AM5T-2405D-NZ	18-36	±5	±500	1500	77

**Input Specifications**

Parameters	Nominal	Typical	Maximum	Units
Voltage range	12 24	9-18 18-36		VDC
Filter	π (Pi) Network			

**Isolation Specifications**

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	60 sec	1500		VDC
Resistance		> 1000		MOhm

**Output Specifications**

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±1p. and ±3 n.		%
Short Circuit protection		Continuous		
Short circuit restart		Auto-recovery		
Line voltage regulation		±0.2		%
Load voltage regulation		±0.5		%
Temperature coefficient		±0.02		%/°C
Ripple		30		mV p-p
Noise		100		mV p-p

**General Specifications**

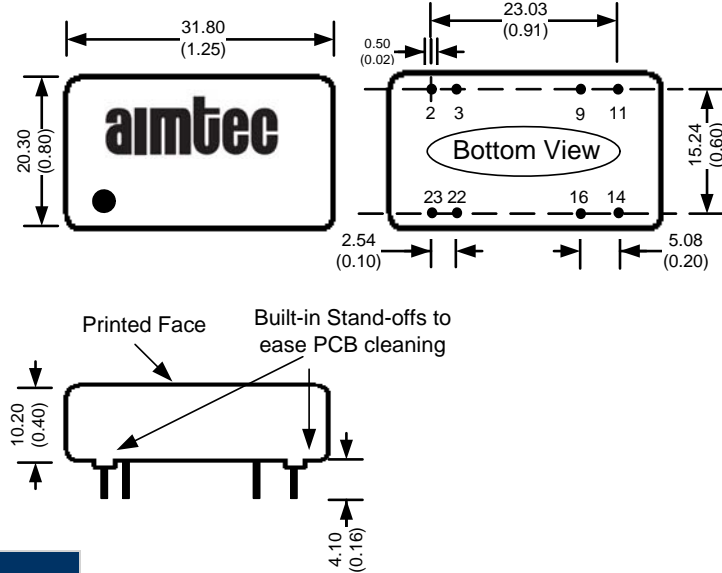
Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300		KHz
Operating temperature	Without derating		-40 to +71	°C
Storage temperature			-55 to +125	°C
Max Case temperature			100	°C
Cooling	Free air convection			
Humidity			95	%
Case material	Metal			
Weight		19		g
Dimensions(L x W x H)		1.25 x 0.8 x 0.4 inches	31.75 x 20.32 x 10.16 mm	
<b>MTBF</b>	<b>&gt;1 000 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)</b>			

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

### Pin Out Specifications

Pin	1500VDC Dual
2	-V Input
3	-V Input
9	Common
11	-V Output
14	+V Output
16	Common
22	+V Input
23	+V Input

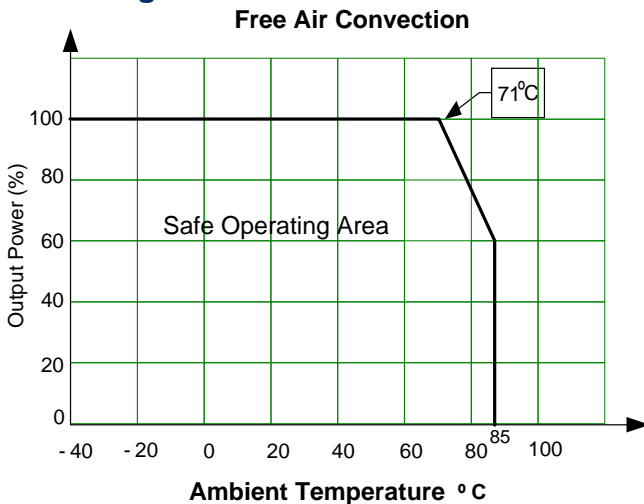
### Dimensions



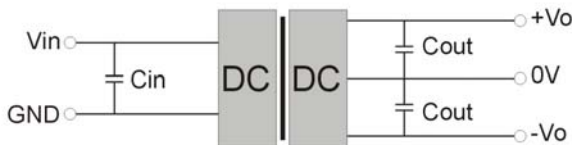
### External capacitor Single and Dual

Vin (V)	Cin (uF)	Vout (V)	Cout
12	100	5	100 uF each 1A current
4	100		

### Derating



### Recommended Circuit - Dual Output



**NOTE:** 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to [www.aimtec.com](http://www.aimtec.com) for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 6. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other than the ones listed in this datasheet. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at [www.aimtec.com](http://www.aimtec.com).