



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Shielded metal package
- High efficiency up to 83%
- Wide 2:1 input range
- Operating temperature -40°C to + 85°C
- Input / Output Isolation 1500VDC
- Pin compatible with multiple manufacturers
- Continuous short circuit protection



Models
Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM3T-0505S-NZ	4.5-9	5	600	1500	68
AM3T-0509S-NZ	4.5-9	9	333	1500	70
AM3T-0512S-NZ	4.5-9	12	250	1500	72
AM3T-0515S-NZ	4.5-9	15	200	1500	73

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM3T-0505D-NZ	4.5-9	±5	±300	1500	68
AM3T-0512D-NZ	4.5-9	±12	±125	1500	72
AM3T-0515D-NZ	4.5-9	±15	±100	1500	73

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

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-9		VDC
Filter	π (Pi) Network			

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	60 sec	1500		VDC
Resistance		> 1000		MOhm
Capacitance		100		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±1		%
Voltage balance		±3p and ±5 n.		%
Short Circuit protection		Continuous		
Short circuit restart		Auto-recovery		
Line voltage regulation (Single)		±0.2		%
Line voltage regulation (Dual)		±0.5		%
Load voltage regulation (Single)		±0.5		%
Load voltage regulation (Dual)		±1		%
Temperature coefficient		±0.03		%/°C
Ripple & Noise	20MHz bandwidth	80		mV p-p

General Specifications

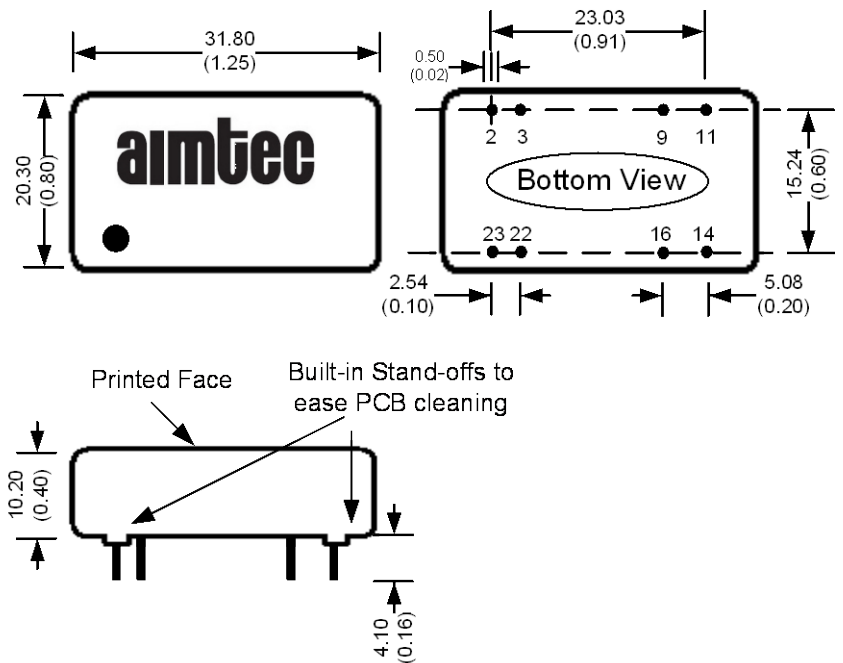
Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300		KHz
Operating temperature	With derating above +71C	-40 to +85		°C
Storage temperature		-55 to +125		°C
Max Case temperature			100	°C
Cooling	Free air convection			
Humidity			95	%
Case material	Metal			
Weight		15		g
Dimensions (L x W x H)	1.25 x 0.80 x 0.40 inches 31.80 x 20.30 x 10.20 mm			
MTBF	>1 000 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)			

Pin Out Specifications

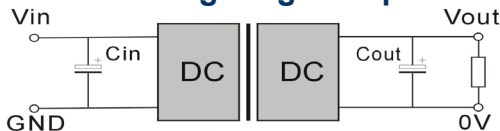
Pin	1500VDC	
	Single	Dual
1	No pin	No pin
2	-V Input	-V Input
3	-V Input	-V Input
9	No pin	Common
10	No pin	No pin
11	N.C.	-V Output
12/13	No pin	No pin
14	+V Output	+V Output
15	No pin	No pin
16	-V Output	Common
22	V+ Input	+V Input
23	V+ Input	+V Input
24	No pin	No pin

N.C.: not connected

Dimensions

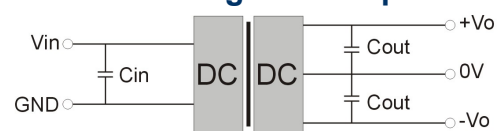


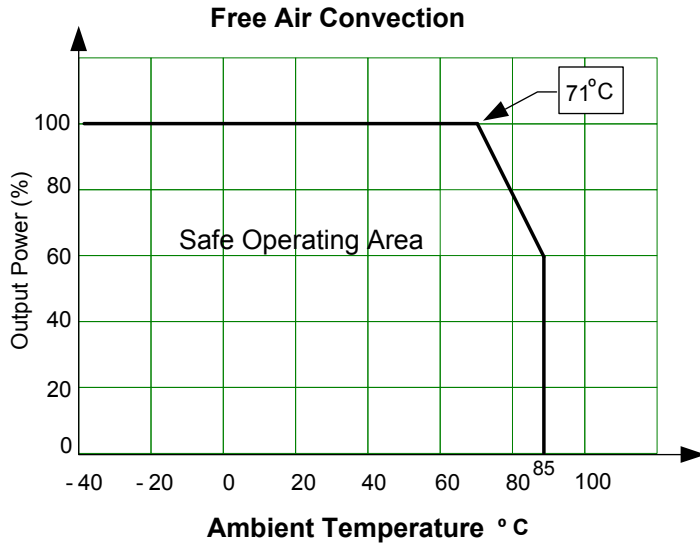
Filtering Single output



Derating

Filtering Dual output





External capacitors

Vin (VDC)	Cin (uF)	Vout (VDC)	Cout (uF)
5	100	3.3	2200
		5	1000
		12	470
		15	330

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