



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-1203S-NZ	9-18	3.3	909	1500	71
AM3T-1205S-NZ	9-18	5	600	1500	76
AM3T-1212S-NZ	9-18	12	250	1500	79
AM3T-1215S-NZ	9-18	15	200	1500	80
AM3T-2403S-NZ	18-36	3.3	909	1500	76
AM3T-2405S-NZ	18-36	5	600	1500	78
AM3T-2412S-NZ	18-36	12	250	1500	81
AM3T-2415S-NZ	18-36	15	200	1500	82
AM3T-4805S-NZ	36-72	5	600	1500	78
AM3T-4812S-NZ	36-72	12	250	1500	80
AM3T-4815S-NZ	36-72	15	200	1500	81

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM3T-1205D-NZ	9-18	±5	±300	1500	76
AM3T-1212D-NZ	9-18	±12	±125	1500	79
AM3T-1215D-NZ	9-18	±15	±100	1500	80
AM3T-2405D-NZ	18-36	±5	±300	1500	78
AM3T-2412D-NZ	18-36	±12	±125	1500	80
AM3T-2415D-NZ	18-36	±15	±100	1500	81
AM3T-4805D-NZ	36-72	±5	±300	1500	78
AM3T-4812D-NZ	36-72	±12	±125	1500	80
AM3T-4815D-NZ	36-72	±15	±100	1500	81

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	12	9-18		VDC
	24	18-36		
	48	36-72		
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

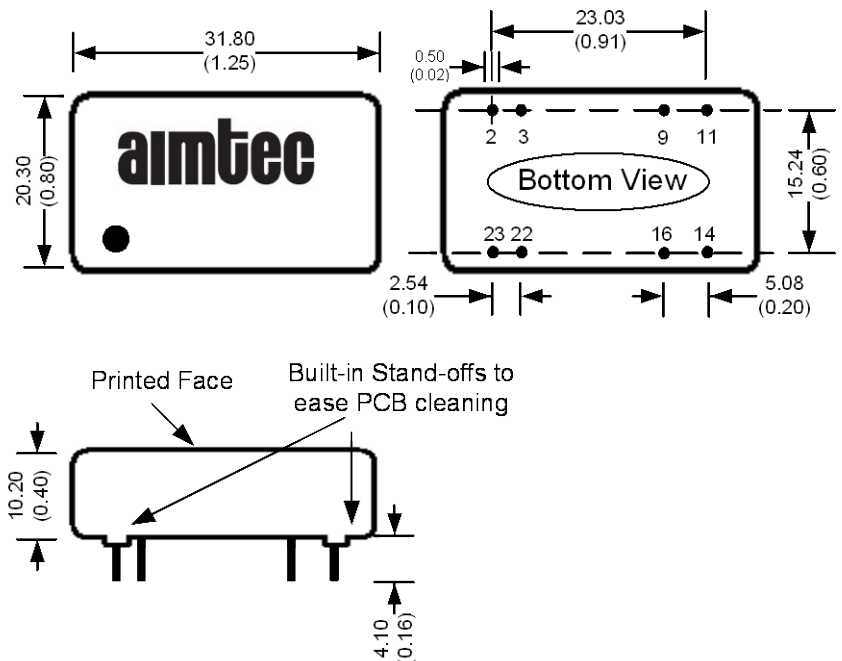
Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300		KHz
Operating temperature	With derating above +71C	-40 to +85		°C
Storage temperature		-55 to +125		°C
Max Case temperature			100	°C
Cooling		Free air convection		
Humidity			95	%
Case material		Metal		
Weight		15		g
Dimensions (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

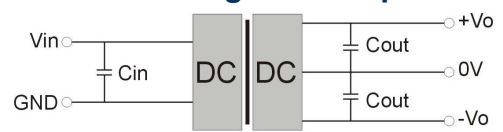
Dimensions



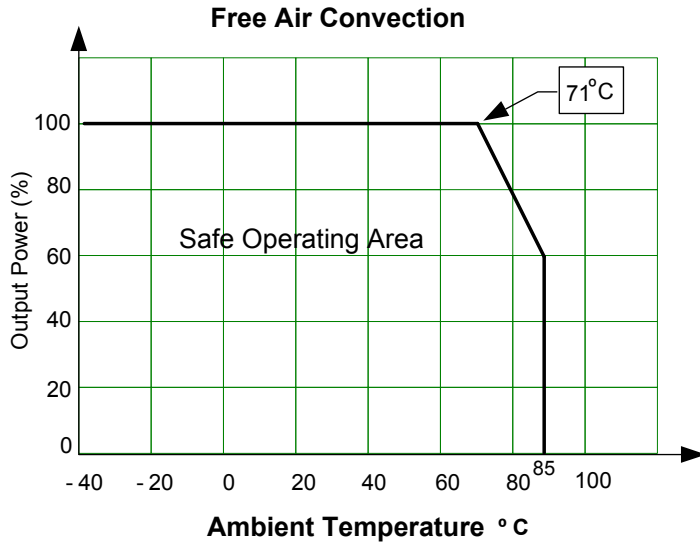
Filtering Single output



Filtering Dual output



Derating



External capacitors

Vin (VDC)	Cin (uF)	Vout (VDC)	Cout (uF)
12	100	3.3	2200
		5	1000
		12	470
		15	330
24 & 48	10-47	±5	±680
		±12	±330
		±15	±220

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