



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-0503S-NZ	4.5-9	3.3	600	1500	64
AM3T-1212S-NZ	9-18	12	250	1500	76
AM3T-1215S-NZ	9-18	15	200	1500	78
AM3T-2405S-NZ	18-36	5	600	1500	75
AM3T-2415S-NZ	18-36	15	200	1500	81
AM3T-4803S-NZ	36-72	3.3	600	1500	72
AM3T-4805S-NZ	36-72	5	600	1500	72
AM3T-4812S-NZ	36-72	12	250	1500	82

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM3T-0515D-NZ	4.5-9	±15	±100	1500	72
AM3T-1205D-NZ	9-18	±5	±300	1500	72
AM3T-2405D-NZ	18-36	±5	±300	1500	78
AM3T-2412D-NZ	18-36	±12	±125	1500	81
AM3T-4805D-NZ	36-72	±5	±300	1500	76
AM3T-4812D-NZ	36-72	±12	±125	1500	81
AM3T-4815D-NZ	36-72	±15	±100	1500	82
AM3T-4824D-NZ	36-72	±24	±63	1500	80

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
	12	9-18		
	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		±1p and ±3 n.		%
Short Circuit protection	Continuous			
Short circuit restart	Auto-recovery			
Line voltage regulation (Single)		±0.2		%
Line voltage regulation (Dual)		±0.2		%
Load voltage regulation (Single)		±0.5		%
Load voltage regulation (Dual)		±0.5		%
Temperature coefficient		±0.03		%/°C
Ripple	20...300KHz	30		mV p-p
Noise	0...20MHz	80		mV p-p

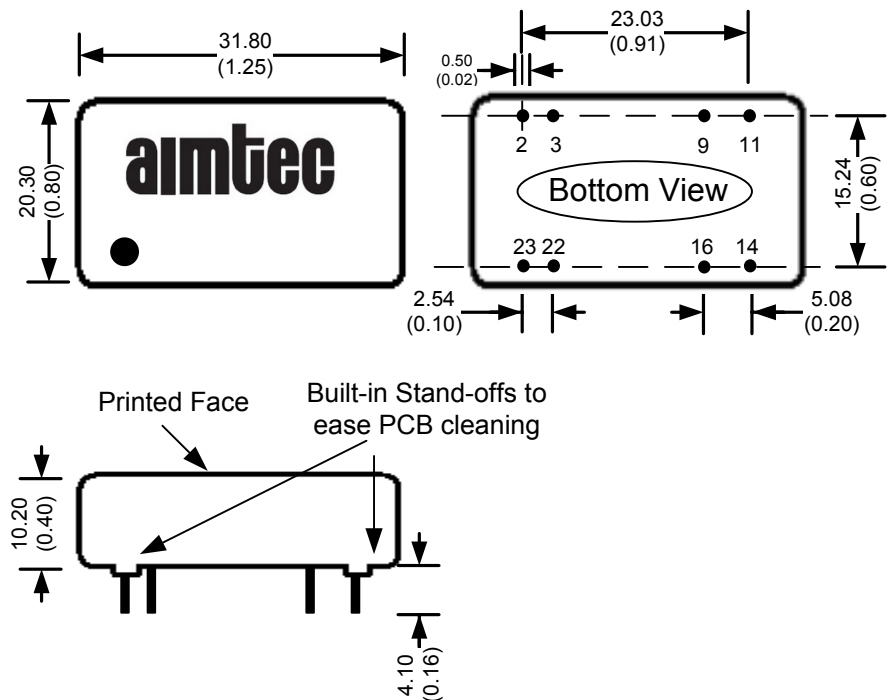
General Specifications

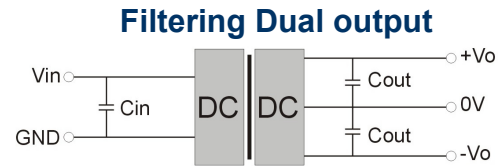
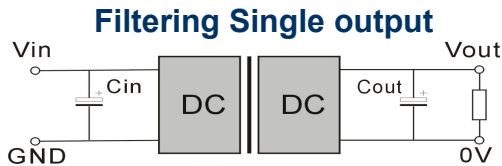
Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300		KHz
Operating temperature	With derating above +71°C	-40 to +85		°C
Storage temperature		-55 to +125		°C
Max Case temperature			100	°C
Cooling	Free air convection			
Humidity			95	%
Case material	Metal			
Weight		16.3		g
Dimensions (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

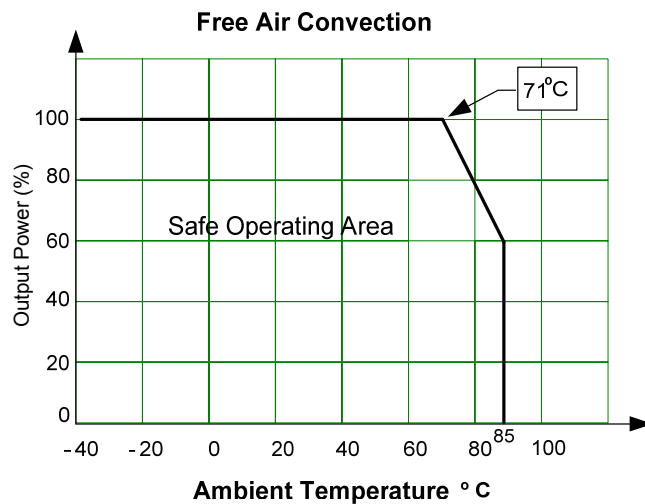
Pin	1500VDC	
	Single	Dual
1	No pin	No pin
2	-V Input	-V Input
3	-V Input	-V Input
9	No pin	Common
10	No pin	No pin
11	NC	-V Output
12/13	No pin	No pin
14	+V Output	+V Output
15	No pin	No pin
16	-V Output	Common
22	V+ Input	+V Input
23	V+ Input	+V Input
24	No pin	No pin

Dimensions





Derating



External capacitor – Single output

Vin (VDC)	External capacitor (0-+70 °C) (uF)	Vout (VDC)	External capacitor (-40-+85 °C) (uF)
5 & 12	100	100	47
24 & 48	10	Electrolytic capacitor	Tantalum capacitor

External capacitor – Dual output

Vin (VDC)	External capacitor (0-+70 °C) (uF)	Vout (VDC)	External capacitor (-40-+85 °C) (uF)
5 & 12	100	100	47
24 & 48	22	Electrolytic capacitor	Tantalum capacitor

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