



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Wide 2:1 input range
- Power modules for PCB mounting
- Operating temperature -40°C to + 75°C
- Regulated output
- Low ripple and noise
- Input/output Isolation voltage 1500VDC



Models
Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive Load, max(uf)	Ripple & Noise max, (% mV p-p)	Efficiency (%)
AM8T-0503SIZ	4.5-9	3.3	1600	18400	80	74
AM8T-0505SIZ	4.5-9	5	1600	18400	80	79
AM8T-0512SIZ	4.5-9	12	660	18400	120	83
AM8T-0515SIZ	4.5-9	15	530	18400	150	83
AM8T-1203SIZ	9-18	3.3	1600	6930	80	75
AM8T-1205SIZ	9-18	5	1600	6930	80	83
AM8T-1212SIZ	9-18	12	660	6930	120	85
AM8T-1215SIZ	9-18	15	530	6930	150	85
AM8T-2403SIZ	18-36	3.3	1600	6800	80	81
AM8T-2405SIZ	18-36	5	1600	6800	80	83
AM8T-2412SIZ	18-36	12	660	6800	120	88
AM8T-2415SIZ	18-36	15	530	6800	150	87
AM8T-4803SIZ	36-75	3.3	1600	5030	80	81
AM8T-4805SIZ	36-75	5	1600	5030	80	83
AM8T-4812SIZ	36-75	12	660	5030	120	88
AM8T-4815SIZ	36-75	15	530	5030	150	87

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive Load, max(uf)	Ripple & Noise max, (%)	Efficiency (%)
AM8T-0505DIZ	4.5-9	±5	±800	±9200	80	85
AM8T-0512DIZ	4.5-9	±12	±330	±9200	120	85
AM8T-0515DIZ	4.5-9	±15	±260	±9200	150	85
AM8T-1205DIZ	9-18	±5	±800	±3465	80	85
AM8T-1212DIZ	9-18	±12	±330	±3465	120	85
AM8T-1215DIZ	9-18	±15	±260	±3465	150	85
AM8T-2405DIZ	18-36	±5	±800	±3400	80	83
AM8T-2412DIZ	18-36	±12	±330	±3400	120	88
AM8T-2415DIZ	18-36	±15	±260	±3400	150	87
AM8T-4805DIZ	36-75	±5	±800	±2515	80	83
AM8T-4812DIZ	36-75	±12	±330	±2515	120	88
AM8T-4815DIZ	36-75	±15	±260	±2515	150	87

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-9		VDC
	12	9-18		
	24	18-36		
	48	36-75		
Filter	π (Pi) Network			

Input Specifications (continued)

Parameters	Nominal	Typical	Maximum	Units
Absolute Maximum Rating	5 Vin		10	VDC
	12 Vin		20	
	24 Vin		40	
	48 Vin		83	
Permissible absolute maximum duration			2	h

Isolation Specifications

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

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±2		%
Short Circuit protection		Continuous		
Short Circuit restart		Auto recovery		
Over voltage protection		Zener diode clamp		
Over load protection	Auto recovery	Over 110% full load		
Line voltage regulation (Single)	HL-LL	±0.5		%
Line voltage regulation (Dual)	HL-LL	±0.5		%
Load voltage regulation (Single)	25 – 100% load	±0.5		%
Load voltage regulation (Dual)	25 – 100% load	±2		%
Temperature coefficient		±0.05		%/°C

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300		KHz
Operating temperature	Derating above +70 °C		-40 to +75	°C
Storage temperature			-55 to +115	°C
Maximum Case temperature			+95	°C
Cooling		Free air convection		
Humidity			95	%
Case material		Nickel coated cooper		
Weight		33		g
Dimensions (L x W x H)	Tolerance ±0.02 inch, ±0.5mm	1.25 x 0.80 x 0.40 inches	31.80 x 20.30 x 10.20 mm	
MTBF		> 800 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

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.

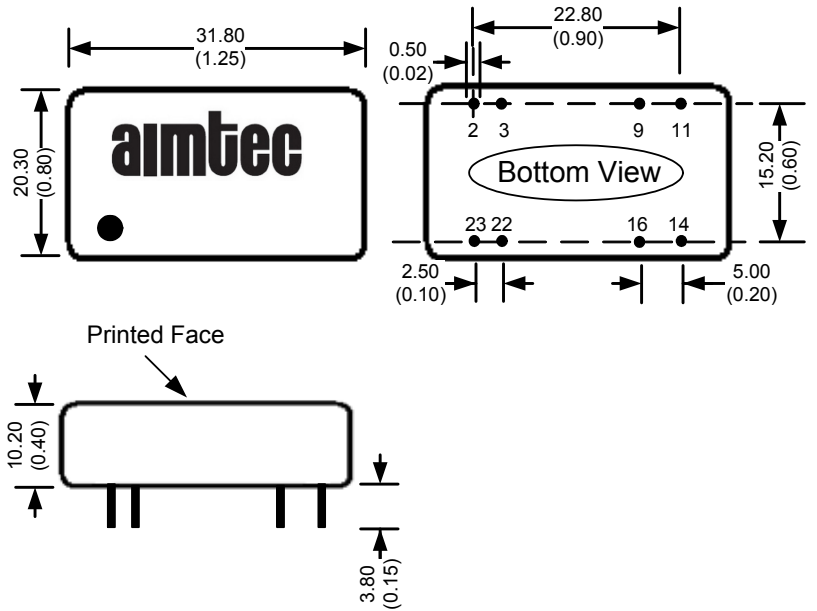
Safety Specifications

Standards	
Agency approvals	CE
Safety	EN 55022: 2006 + A1: 2007
	EN 55024: 1998 + A1:2001 + A2:2003
	IEC 61000-4-2: 2008
	IEC 61000-4-3: 2006 + A1: 2007
	IEC 61000-4-4: 2004
	IEC 61000-4-6: 2008
	IEC 61000-4-8: 2009

Pin Out Specifications

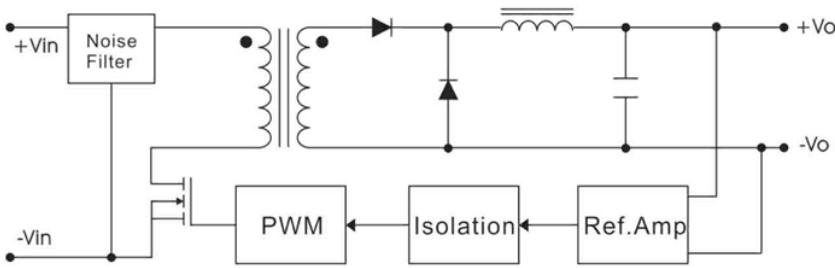
Pin	Single	Dual
2	-V Input	-V Input
3	-V Input	-V Input
9	N.C.	Common
10	Omitted	Omitted
11	N.C.	-V Output
14	+V Output	+ V Output
15	Omitted	Omitted
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input

Dimensions

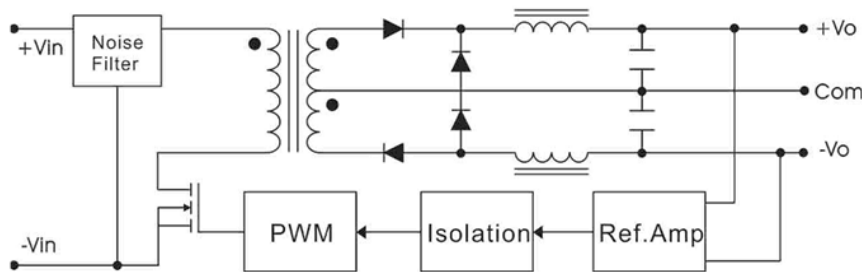


Block Diagrams

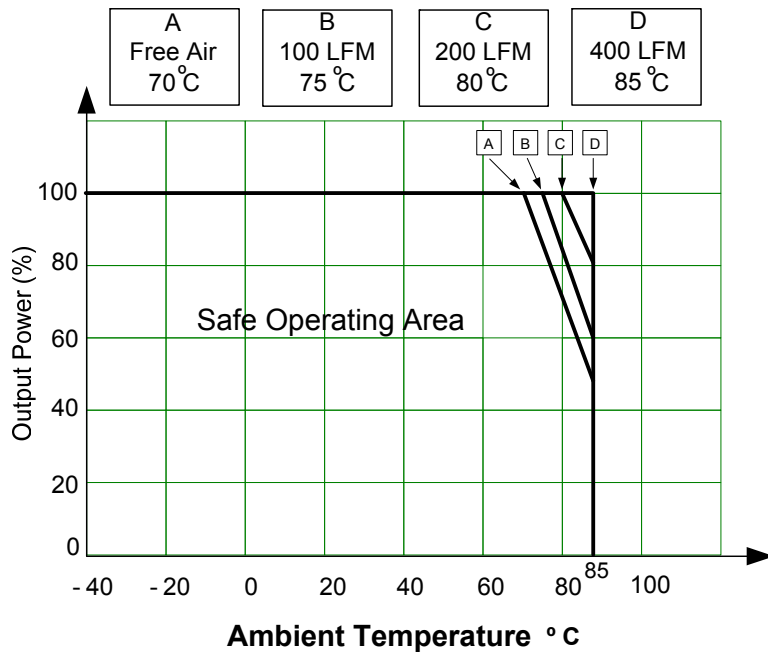
Single Output



Dual Output



Derating



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