



### FEATURES:

- Short Circuit & OVP Protection
- 24 Pin DIP Package
- Wide 4:1 input range
- Power modules for PCB mounting
- No minimum load
- 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 (%)
AM10TW-2403SIZ	9-36	3.3	2000	4200	80	71
AM10TW-2405SIZ	9-36	5	2000	3200	80	75
AM10TW-2412SIZ	9-36	12	830	600	120	78
AM10TW-2415SIZ	9-36	15	660	390	150	78
AM10TW-4803SIZ	18-75	3.3	2000	3300	80	73
AM10TW-4805SIZ	18-75	5	2000	2200	80	83
AM10TW-4812SIZ	18-75	12	830	600	120	81
AM10TW-4815SIZ	18-75	15	660	330	150	81

### Models

#### Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive Load, max(uf)	Ripple & Noise max, (%)	Efficiency (%)
AM10TW-2405DIZ	9-36	±5	±1000	±330	80	75
AM10TW-2412DIZ	9-36	±12	±410	±220	120	79
AM10TW-2415DIZ	9-36	±15	±330	±200	150	80
AM10TW-4805DIZ	18-75	±5	±1000	±330	80	77
AM10TW-4812DIZ	18-75	±12	±410	±220	120	80
AM10TW-4815DIZ	18-75	±15	±330	±200	150	80

### Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	24 48	9-36 18-75		VDC
Filter	Capacitor			
Absolute Maximum Rating	24 Vin 48 Vin		50 100	VDC
Permissible absolute maximum duration			100	ms
Transient Voltage Deviation			5	VDC

### Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec		1500	VDC
Resistance		> 1000		MOhm
Capacitance		470		pF

### Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±2		%
Short Circuit protection		Continuous		
Short Circuit restart		Auto recovery		

### Output Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Over voltage protection	Zener diode clamp	>110%		VDC
Over load protection	Auto recovery	Over 110% full load		
Line voltage regulation	HL-LL	±0.5		%
Load voltage regulation (Single)	0 – 100% full load	±0.5		%
Load voltage regulation (Dual)	0 – 100% full load	±2		%
Temperature coefficient		±0.05		%/°C
Ripple & Noise	3.3 & 5V models 12 & 15V models	80 mV p-p 1% Vout p-p		mV

### General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300		KHz
Operating temperature	Derating above +50 °C		-40 to +75	°C
Storage temperature			-55 to +115	°C
Case Temperature			+95	°C
Cooling		Free air convection		
Humidity			95	%
Case material		Nickel coated cooper		
Weight		18		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		> 700 000 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.

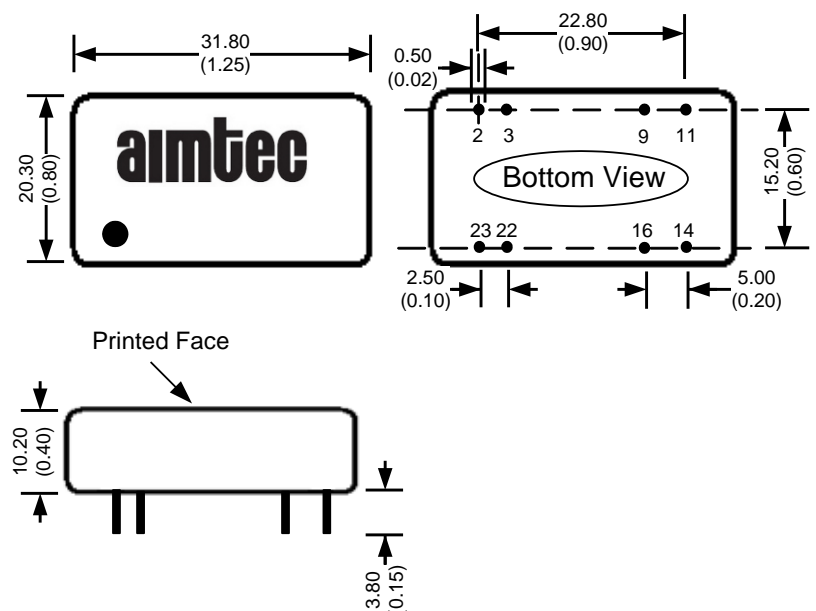
### Safety Specifications

Standards	
Agency approvals	UL (pending)
Safety	EN 55022, class A
	EN 55024

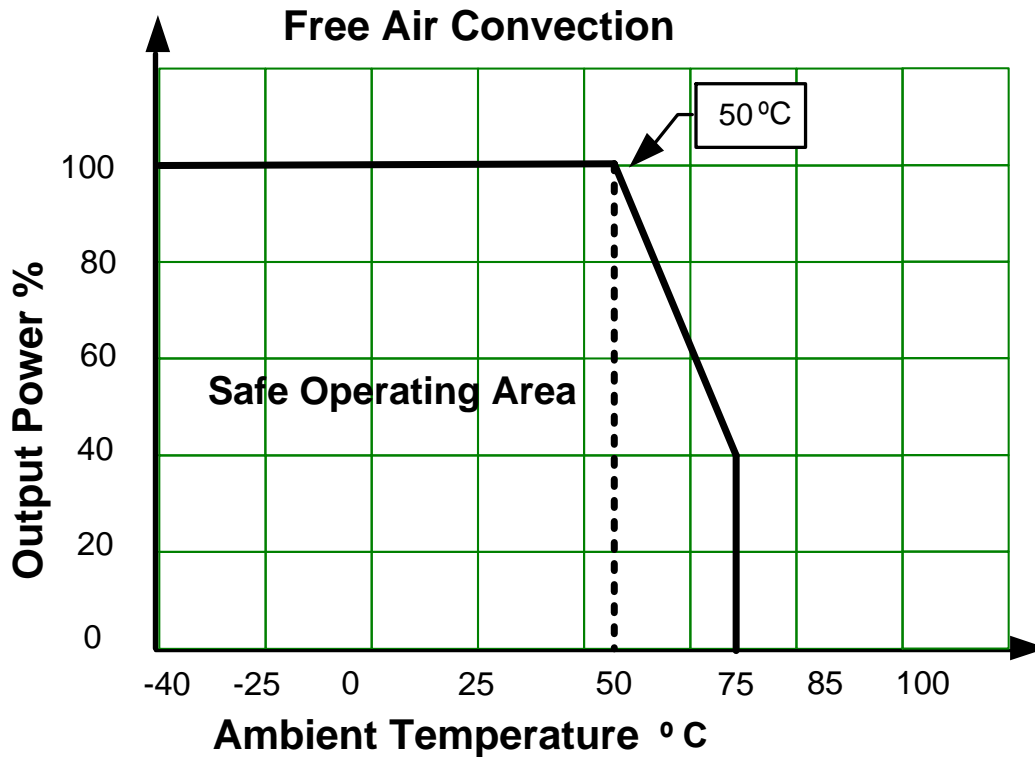
### Pin Out Specifications

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



**Derating**



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