

Picture coming soon

**FEATURES:**

- Wide 4:1 Input Voltage Range
- High efficiency up to 88%
- Remote On/Off
- Standard 1"x1" Package
- 1500 VDC Isolation
- Operating Temperature -40°C to +85°C
- Over Voltage, Over load protection
- Output Short Circuit Protection

**Models**

**Single output**



Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Max Capacitive Load(uF)	Efficiency (%)
AM10CW-2403S-FZ	9-36	3.3	2200	3300	82
AM10CW-2405S-FZ	9-36	5	2000	2200	85
AM10CW-2412S-FZ	9-36	12	830	680	88
AM10CW-2415S-FZ	9-36	15	660	330	88
AM10CW-2424S-FZ	9-36	24	410	100	87
AM10CW-4803S-FZ	18-75	3.3	2200	3300	80
AM10CW-4805S-FZ	18-75	5	2000	2200	84
AM10CW-4812S-FZ	18-75	12	830	680	87
AM10CW-4815S-FZ	18-75	15	660	330	87
AM10CW-4824S-FZ	18-75	24	410	100	87

**Models**

**Dual output**

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Max Capacitive Load(uF)	Efficiency (%)
AM10CW-2405D-FZ	9-36	±5	±1000	±1000	85
AM10CW-2412D-FZ	9-36	±12	±410	±470	88
AM10CW-2415D-FZ	9-36	±15	±330	±220	87
AM10CW-4805D-FZ	18-75	±5	±1000	±1000	84
AM10CW-4812D-FZ	18-75	±12	±410	±470	87
AM10CW-4815D-FZ	18-75	±15	±330	±220	87

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.

**Input Specifications**

Parameters	Nominal	Typical	Maximum	Units
Voltage range	24	9-36		VDC
	48	18-75		
Filter	Pi			
Start up time		77		ms
Absolute Maximum Rating	24		50	VDC
	48		100	
Peak Input Voltage time			100	ms
On/Off control	ON –Open or 3.5 to 12V/<0.2mA			
	OFF –Short to pin 2 (-Vin) or 0 to 0.7V			
Idle Input Current	At OFF state		12	mA
Input reflected current			62	mA p-p
Transient response settling time	50% load step change		550	µs
Transient response deviation	di/dt=0.8A/µs		≤5	%
	3.3Vou		≤6	

### Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage		1500		VDC
Resistance	500VDC		>1000	MOhm
Capacitance		1100		pF

### Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±1		%
Over voltage protection	3.3 Vout	3.9		V
	5 Vout	6.2		
	12 Vout	15		
	15 Vout	18		
	24 Vout	27		
Short Circuit protection		Continuous		
Short circuit restart		Auto-Recovery		
Line voltage regulation	LL to HL at full load	±1		% of Vin
Load voltage regulation (Single)	0% to Full load	±1		%
Load voltage regulation (Dual)	Balanced Load	±0.5		%
	Unbalanced load 25 to 100% load	±5		
Temperature coefficient			±0.02	%/°C
Ripple & Noise	20MHz Bandwidth	80		mV p-p

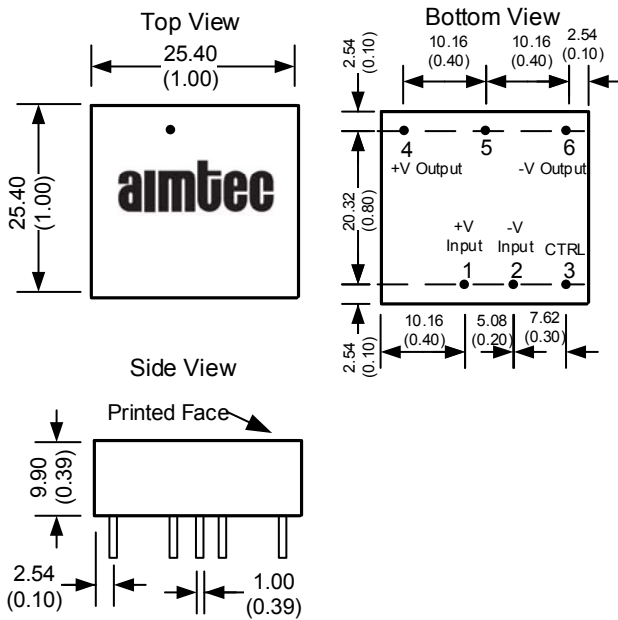
### General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	330kHz		KHz
Operating temperature	With derating above 60°C	-40 to +85		°C
Storage temperature		-55 to +125		°C
Maximum case temperature			105	°C
Cooling		Natural convection		
Humidity			95	% RH
Case material		Nickel-coated copper		
Weight		17.4		g
Dimensions (L x W x H)		1 x 1 x 0.4 inches	25.4 x 25.4 x 10.2 mm	
MTBF		>1,580,000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

### Pin Out Specifications

Pin	Single	Dual
1	+V input	+V input
2	-V Input	-V Input
3	On/Off Control	On/Off Control
4	+V Output	+V Output
5	No Pin	Common
6	-V output	-V output

## Dimensions



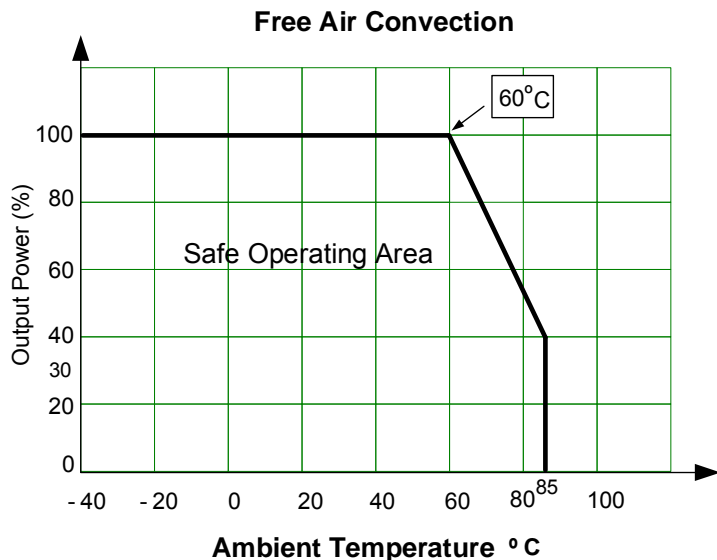
### Notes:

All dimensions are typical in millimeters (inches).

Pin Pitch Tolerance  $\pm 0.35$  ( $\pm 0.014$ )

Case Tolerance  $\pm 0.50$  ( $\pm 0.02$ )

## Derating



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