



FEATURES:

- Wide 2:1 Input Voltage Range
- High Efficiency up to 89%
- 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 (%)
AM10C-1203S-FZ	9-18	3.3	2200	3300	83
AM10C-1205S-FZ	9-18	5	2000	2200	86
AM10C-1212S-FZ	9-18	12	830	680	89
AM10C-1215S-FZ	9-18	15	660	330	88
AM10C-1224S-FZ	9-18	24	410	100	88
AM10C-2403S-FZ	18-36	3.3	2200	3300	82
AM10C-2405S-FZ	18-36	5	2000	2200	86
AM10C-2412S-FZ	18-36	12	830	680	88
AM10C-2415S-FZ	18-36	15	660	330	87
AM10C-2424S-FZ	18-36	24	410	100	87
AM10C-4803S-FZ	36-75	3.3	2200	3300	80
AM10C-4805S-FZ	36-75	5	2000	2200	84
AM10C-4812S-FZ	36-75	12	830	680	86
AM10C-4815S-FZ	36-75	15	660	330	85
AM10C-4824S-FZ	36-75	24	410	100	85

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Max Capacitive Load(uF)	Efficiency (%)
AM10C-1205D-FZ	9-18	±5	±1000	±1000	86
AM10C-1212D-FZ	9-18	±12	±410	±470	89
AM10C-1215D-FZ	9-18	±15	±330	±220	88
AM10C-2405D-FZ	18-36	±5	±1000	±1000	85
AM10C-2412D-FZ	18-36	±12	±410	±470	88
AM10C-2415D-FZ	18-36	±15	±330	±220	87
AM10C-4805D-FZ	36-75	±5	±1000	±1000	84
AM10C-4812D-FZ	36-75	±12	±410	±470	86
AM10C-4815D-FZ	36-75	±15	±330	±220	85

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	12	9-18		VDC
	24	18-36		
	48	36-75		
Filter	Pi			
Start up time		100		ms
Absolute Maximum Rating	12 Vin		25	VDC
	24 Vin		50	
	48 Vin		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			

Input Specifications (continued)

Parameters	Nominal	Typical	Maximum	Units
Idle input Current	At OFF state		12	mA
Input reflected current	Nominal Vin and full load		53	mA p-p
Transient response settling time	50% load step change		1.3	ms
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)	1% to 100% 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

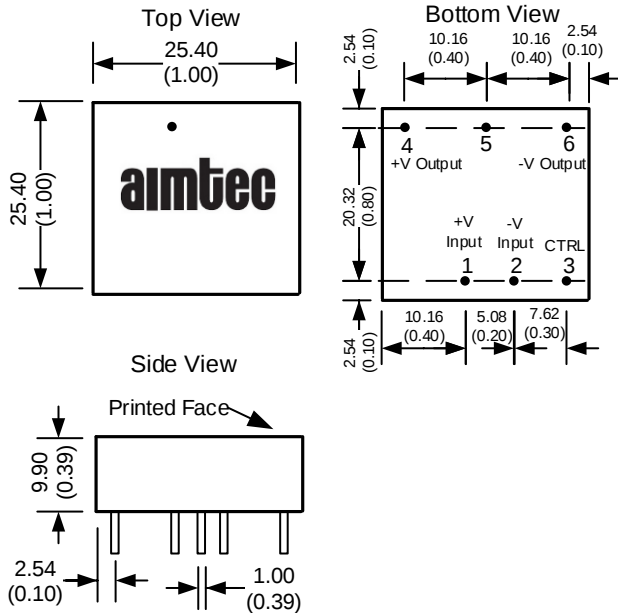
General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	330		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



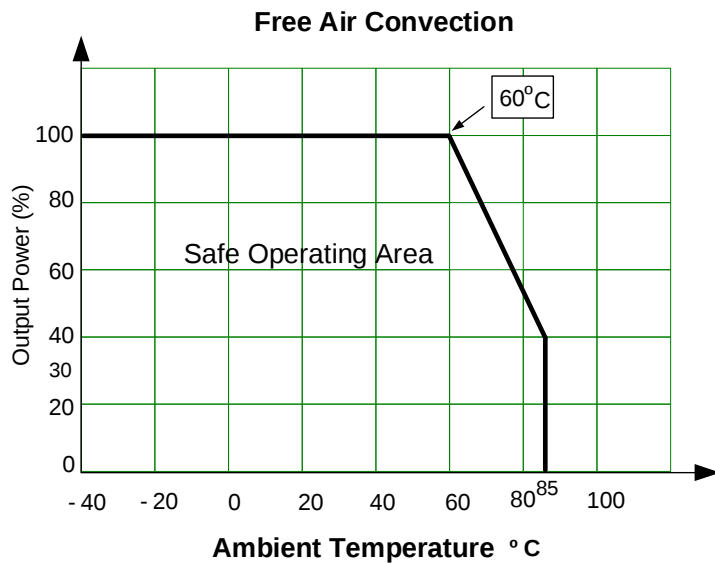
Notes:

All dimensions are typical in millimeters (inches).

Pin Pitch Tolerance ± 0.35 (± 0.014)

Case Tolerance ± 0.50 (± 0.02)

Derating



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