

Picture coming soon

FEATURES:

- Wide 4:1 Input Voltage Range
- High efficiency up to 80%
- Remote On/Off
- Standard 1"x1" Package
- 1500 VDC Isolation
- Operating Temperature -40°C to +85°C
- Over Voltage protection
- Output Short Circuit Protection

Models

Single output



Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Max Capacitive Load(uF)	Efficiency (%)
AM6CW-2405S-FZ	9-36	5	1200	680	80
AM6CW-4805S-FZ	18-75	5	1200	680	80

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	24 Vin	220		ms
	48 Vin	264		
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		2.5	mA
Transient response settling time	50% load step change		300	µs
Transient response deviation	di/dt=0.8A/µs		≤5	%

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage		1500		VDC
Resistance	500VDC		>1000	MOhm
Capacitance		270		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±2		%
Over voltage protection	5 Vout	6.2		V
Short Circuit protection	Continuous			
Short circuit restart	Auto-Recovery			
Line voltage regulation	LL to HL at full load	±0.5		% of Vin
Load voltage regulation	0% to Full load	±1		%
Temperature coefficient			±0.02	%/°C
Ripple & Noise	20MHz Bandwidth	80		mV p-p

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300kHz		KHz
Operating temperature	With derating above 60°C	-40 to +85		°C
Storage temperature		-55 to +105		°C
Maximum case temperature			100	°C

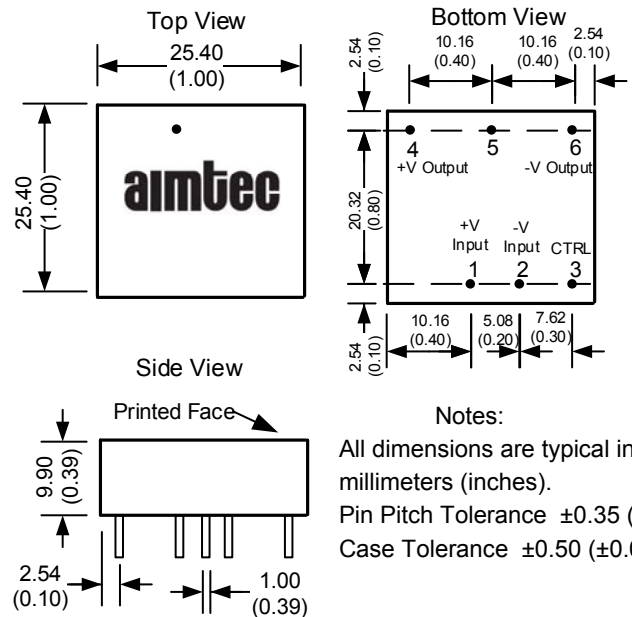
General Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Cooling		Natural convection		
Humidity			95	% RH
Case material		Nickel-coated copper		
Weight		17		g
Dimensions (L x W x H)		1 x 1 x 0.4 inches	25.4 x 25.4 x 10.2 mm	
MTBF		>2,400,000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		
Soldering temperature	1.5mm from case for 10 sec.		260	°C

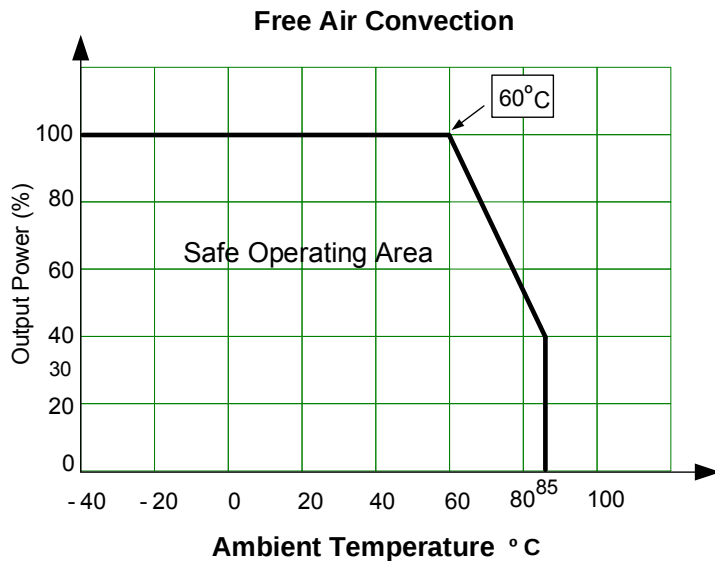
Pin Out Specifications

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



Derating



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