



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Wide 4:1 input range
- High efficiency up to 85%
- Operating temperature -40 to + 71°C
- Input / Output Isolation 1500VDC
- Pin compatible with multiple manufacturers
- Continuous short circuit protection

Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM6TW-2403S-RZ	9-36	3.3	1400	1500	75
AM6TW-2405S-RZ	9-36	5	1200	1500	81
AM6TW-2407S-RZ	9-36	7.2	830	1500	82
AM6TW-2409S-RZ	9-36	9	660	1500	82
AM6TW-2412S-RZ	9-36	12	500	1500	83
AM6TW-2415S-RZ	9-36	15	400	1500	83
AM6TW-2418S-RZ	9-36	18	330	1500	83
AM6TW-2424S-RZ	9-36	24	250	1500	82
AM6TW-4803S-RZ	18-72	3.3	1400	1500	75
AM6TW-4805S-RZ	18-72	5	1200	1500	81
AM6TW-4807S-RZ	18-72	7.2	830	1500	82
AM6TW-4809S-RZ	18-72	9	660	1500	82
AM6TW-4812S-RZ	18-72	12	500	1500	82
AM6TW-4815S-RZ	18-72	15	400	1500	85
AM6TW-4818S-RZ	18-72	18	330	1500	83
AM6TW-4824S-RZ	18-72	24	250	1500	83

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM6TW-2403D-RZ	9-36	±3.3	±700	1500	80
AM6TW-2405D-RZ	9-36	±5	±600	1500	82
AM6TW-2407D-RZ	9-36	±7.2	±410	1500	82
AM6TW-2409D-RZ	9-36	±9	±330	1500	82
AM6TW-2412D-RZ	9-36	±12	±250	1500	84
AM6TW-2415D-RZ	9-36	±15	±200	1500	80
AM6TW-2418D-RZ	9-36	±18	±165	1500	80
AM6TW-2424D-RZ	9-36	±24	±125	1500	81
AM6TW-4803D-RZ	18-72	±3.3	±700	1500	79
AM6TW-4805D-RZ	18-72	±5	±600	1500	82
AM6TW-4807D-RZ	18-72	±7.2	±410	1500	81
AM6TW-4809D-RZ	18-72	±9	±330	1500	81
AM6TW-4812D-RZ	18-72	±12	±250	1500	83
AM6TW-4815D-RZ	18-72	±15	±200	1500	81
AM6TW-4818D-RZ	18-72	±18	±165	1500	81
AM6TW-4824D-RZ	18-72	±24	±125	1500	81

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	24 48	9-36 18-72		VDC
Filter	π (Pi) Network			
Turn on Transient process time			350	ms

Input Specifications (continued)

Parameters	Nominal	Typical	Maximum	Units
Start up time		500		ms
Absolute Maximum Rating	24 Vin 48 Vin	-0.7-40 -0.7-80		VDC
Peak Input Voltage time		100		ms

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	3 sec	1500		VDC
Resistance		> 1000		MOhm
Capacitance		500		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±1		%
Voltage balance		±1		%
Short Circuit protection			Continuous	
Short circuit restart			Auto Recovery	
Over current protection			120% Iout	
Line voltage regulation (Single)		±0.5		%
Line voltage regulation (Dual)		±0.5		%
Load voltage regulation (Single)		±0.5		%
Load voltage regulation (Single) 3.3V output model		±1.5		%
Load voltage regulation (Dual)		±0.5		%
Load voltage regulation (Dual) ±		±1.5		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth	60		mV p-p
Rising time		10		ms

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	260		KHz
Operating temperature	Full Load without Derating		-40 to +71	°C
Storage temperature			-40 to +125	°C
Max Case temperature			+100	°C
Cooling			Free air convection	
Humidity			90	%
Case material			Nickel coated copper	
Weight		26		g
Dimensions (L x W x H)	Tolerance ±0.5 mm or ±0.02 inches	1.25 x 0.80 x 0.40 inches	31.75 x 20.32 x 10.16 mm	
MTBF		>1 050 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

NOTE: All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

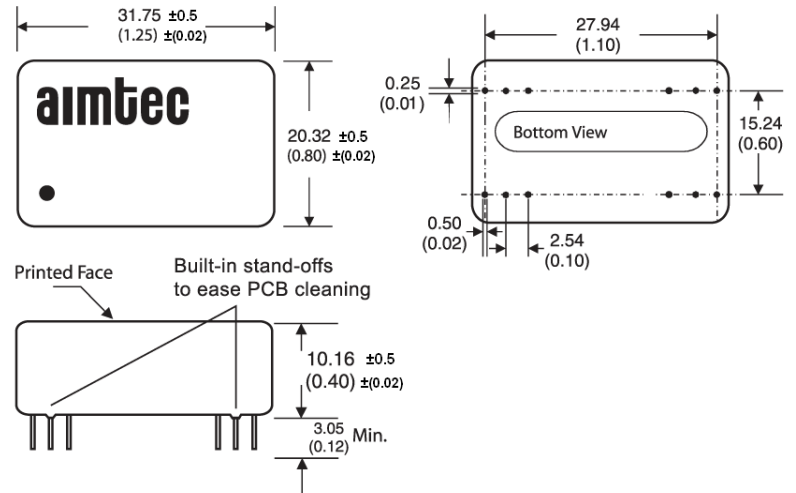
Safety Specifications

Standards	
Safety	meets IEC 60950-1:2001
Agency Approval	EN55022 Class A, EN55024
	IEC61000-4-2, Perf. Criteria B
	IEC61000-4-3, Perf. Criteria A
	IEC61000-4-4, Perf. Criteria B
	IEC61000-4-5, Perf. Criteria B
	IEC61000-4-6, Perf. Criteria A
	IEC61000-4-8, Perf. Criteria A

Pin Out Specifications

Pin	Single	Dual
1	Omitted	Omitted
2	-V Input	-V Input
3	-V Input	-V Input
9	Omitted	Common
10	Omitted	Omitted
11	N.C.	-V Output
12/13	Omitted	Omitted
14	+V Output	+V Output
15	Omitted	Omitted
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input
24	Omitted	Omitted

Dimensions



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