



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- High efficiency up to 83%
- Wide 4:1 input range
- Operating temperature -40°C to + 85°C
- Input / Output Isolation 1500 or 3500VDC
- 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 (%)
AM4TW-2403SZ	9-36	3.3	1200	1500	77
AM4TW-2405SZ	9-36	5	800	1500	80
AM4TW-2407SZ	9-36	7.2	550	1500	80
AM4TW-2409SZ	9-36	9	440	1500	80
AM4TW-2412SZ	9-36	12	330	1500	83
AM4TW-2415SZ	9-36	15	265	1500	83
AM4TW-2418SZ	9-36	18	220	1500	80
AM4TW-2424SZ	9-36	24	165	1500	81
AM4TW-4803SZ	18-72	3.3	1200	1500	77
AM4TW-4805SZ	18-72	5	800	1500	80
AM4TW-4807SZ	18-72	7.2	550	1500	78
AM4TW-4809SZ	18-72	9	440	1500	82
AM4TW-4812SZ	18-72	12	330	1500	81
AM4TW-4815SZ	18-72	15	265	1500	81
AM4TW-4818SZ	18-72	18	220	1500	81
AM4TW-4824SZ	18-72	24	165	1500	82
AM4TW-2403SH35Z	9-36	3.3	1200	3500	77
AM4TW-2405SH35Z	9-36	5	800	3500	80
AM4TW-2407SH35Z	9-36	7.2	550	3500	80
AM4TW-2409SH35Z	9-36	9	440	3500	82
AM4TW-2412SH35Z	9-36	12	330	3500	83
AM4TW-2415SH35Z	9-36	15	265	3500	83
AM4TW-2418SH35Z	9-36	18	220	3500	80
AM4TW-2424SH35Z	9-36	24	165	3500	81
AM4TW-4803SH35Z	18-72	3.3	1200	3500	77
AM4TW-4805SH35Z	18-72	5	800	3500	80
AM4TW-4807SH35Z	18-72	7.2	550	3500	80
AM4TW-4809SH35Z	18-72	9	440	3500	82
AM4TW-4812SH35Z	18-72	12	330	3500	81
AM4TW-4815SH35Z	18-72	15	265	3500	81
AM4TW-4818SH35Z	18-72	18	220	3500	81
AM4TW-4824SH35Z	18-72	24	165	3500	82

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM4TW-2403DZ	9-36	±3.3	±600	1500	76
AM4TW-2405DZ	9-36	±5	±400	1500	78
AM4TW-2407DZ	9-36	±7.2	±275	1500	80
AM4TW-2409DZ	9-36	±9	±220	1500	80
AM4TW-2412DZ	9-36	±12	±165	1500	82
AM4TW-2415DZ	9-36	±15	±125	1500	80
AM4TW-2418DZ	9-36	±18	±100	1500	80

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM4TW-2424DZ	9-36	±24	±84	1500	80
AM4TW-4803DZ	18-72	±3.3	±600	1500	75
AM4TW-4805DZ	18-72	±5	±400	1500	79
AM4TW-4807DZ	18-72	±7.2	±275	1500	80
AM4TW-4809DZ	18-72	±9	±220	1500	81
AM4TW-4812DZ	18-72	±12	±165	1500	82
AM4TW-4815DZ	18-72	±15	±125	1500	81
AM4TW-4818DZ	18-72	±18	±100	1500	80
AM4TW-4824DZ	18-72	±24	±84	1500	80
AM4TW-2403DH35Z	9-36	±3.3	±600	3500	76
AM4TW-2405DH35Z	9-36	±5	±400	3500	78
AM4TW-2407DH35Z	9-36	±7.2	±275	3500	80
AM4TW-2409DH35Z	9-36	±9	±220	3500	80
AM4TW-2412DH35Z	9-36	±12	±165	3500	82
AM4TW-2415DH35Z	9-36	±15	±125	3500	80
AM4TW-2418DH35Z	9-36	±18	±100	3500	80
AM4TW-2424DH35Z	9-36	±24	±84	3500	80
AM4TW-4803DH35Z	18-72	±3.3	±600	3500	75
AM4TW-4805DH35Z	18-72	±5	±400	3500	79
AM4TW-4807DH35Z	18-72	±7.2	±275	3500	80
AM4TW-4809DH35Z	18-72	±9	±220	3500	81
AM4TW-4812DH35Z	18-72	±12	±165	3500	82
AM4TW-4815DH35Z	18-72	±15	±125	3500	81
AM4TW-4818DH35Z	18-72	±18	±100	3500	80
AM4TW-4824DH35Z	18-72	±24	±84	3500	80

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
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 voltage	3 sec	1500 or 3500		VDC
Resistance		> 1000		MOhm
Capacitance		470		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±1		%
Voltage balance		±1		%
Short Circuit protection	Continuous			
Short circuit restart	Automatic			
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 models		±1.5		%

Load voltage regulation (Dual)		±0.5		%
Load voltage regulation (Dual) ±3.3V output model		±1.5		%
Temperature coefficient		±0.02		%/°C

Output Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Ripple & Noise	0...20 MHz	60		mV p-p
Rising time		10		ms

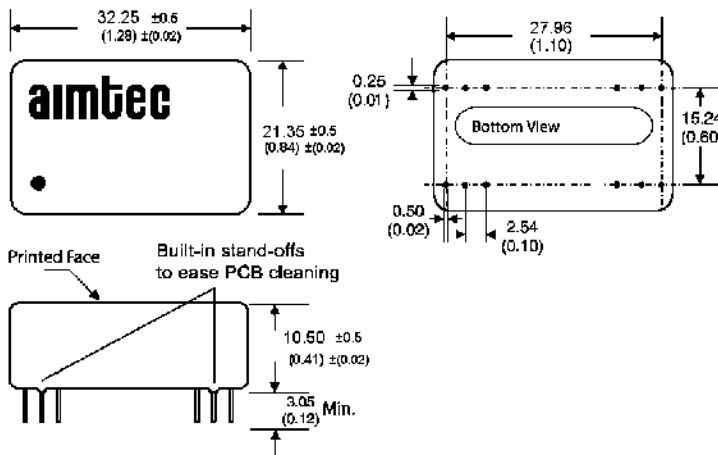
General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	260		KHz
Operating temperature	Without derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Case temperature			100	°C
Cooling	Free air convection			
Humidity	Non condensing		90	%
Case material	Nickel-coated copper			
Weight		26		g
Dimensions	Tolerance ±0.5 mm or ±0.02 inches	1.28 x 0.84 x 0.41 inches	32.25 x 21.35 x 10.5 mm	
MTBF	>960 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)			

Pin Out Specifications

Pin	1500VDC		3500VDC	
	Single	Dual	Single	Dual
1	+V Input	+V Input	Omitted	Omitted
2	N.C.	-V Output	-V Input	-V Input
3	N.C.	Common	-V Input	-V Input
9	Omitted	Omitted	Omitted	Common
10	-V Output	Common	Omitted	Omitted
11	+V Output	+V Output	N.C.	-V Output
12/13	-V Input	-V Input	Omitted	Omitted
14	+V Output	+V Output	+V Output	+V Output
15	-V Output	Common	Omitted	Omitted
16	Omitted	Omitted	-V Output	Common
22	N.C.	Common	+V Input	+V Input
23	N.C.	-V Output	+V Input	+V Input
24	+V Input	+V Input	Omitted	Omitted

Dimensions



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