



FEATURES:

- RoHS compliant
- Low profile metal package
- High efficiency up to 82%
- Wide 4:1 input range
- Operating temperature -40°C to +85°C
- Input / Output Isolation 1500 and 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)	Capacitive load, max (µF)	Efficiency (%)
AM3TW-2403SZ	9-36	3.3	800	1500	1000	75
AM3TW-2405SZ	9-36	5	600	1500	1000	78
AM3TW-2407SZ	9-36	7.2	417	1500	200	78
AM3TW-2409SZ	9-36	9	333	1500	200	79
AM3TW-2412SZ	9-36	12	250	1500	100	81
AM3TW-2415SZ	9-36	15	200	1500	100	81
AM3TW-2418SZ	9-36	18	167	1500	47	81
AM3TW-2424SZ	9-36	24	125	1500	47	81
AM3TW-4803SZ	18-72	3.3	800	1500	1000	76
AM3TW-4805SZ	18-72	5	600	1500	1000	80
AM3TW-4807SZ	18-72	7.2	417	1500	200	78
AM3TW-4809SZ	18-72	9	333	1500	200	82
AM3TW-4812SZ	18-72	12	250	1500	100	80
AM3TW-4815SZ	18-72	15	200	1500	100	80
AM3TW-4818SZ	18-72	18	167	1500	47	80
AM3TW-4824SZ	18-72	24	125	1500	47	81
AM3TW-2403SH35Z	9-36	3.3	800	3500	1000	75
AM3TW-2405SH35Z	9-36	5	600	3500	1000	78
AM3TW-2407SH35Z	9-36	7.2	417	3500	200	78
AM3TW-2409SH35Z	9-36	9	333	3500	200	79
AM3TW-2412SH35Z	9-36	12	250	3500	100	81
AM3TW-2415SH35Z	9-36	15	200	3500	100	81
AM3TW-2418SH35Z	9-36	18	167	3500	47	81
AM3TW-2424SH35Z	9-36	24	125	3500	47	81
AM3TW-4803SH35Z	18-72	3.3	800	3500	1000	76
AM3TW-4805SH35Z	18-72	5	600	3500	1000	80
AM3TW-4807SH35Z	18-72	7.2	417	3500	200	78
AM3TW-4809SH35Z	18-72	9	333	3500	200	82
AM3TW-4812SH35Z	18-72	12	250	3500	100	80
AM3TW-4815SH35Z	18-72	15	200	3500	100	80
AM3TW-4818SH35Z	18-72	18	167	3500	47	80
AM3TW-4824SH35Z	18-72	24	125	3500	47	81

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitive load, max (µF)	Efficiency (%)
AM3TW-2403DZ	9-36	±3.3	±400	1500	±470	76
AM3TW-2405DZ	9-36	±5	±300	1500	±470	79
AM3TW-2407DZ	9-36	±7.2	±208	1500	±100	78
AM3TW-2409DZ	9-36	±9	±167	1500	±100	79
AM3TW-2412DZ	9-36	±12	±125	1500	±68	80
AM3TW-2415DZ	9-36	±15	±100	1500	±68	80
AM3TW-2418DZ	9-36	±18	±84	1500	±33	81

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitive load, max (µF)	Efficiency (%)
AM3TW-2424DZ	9-36	±24	±63	1500	±33	80
AM3TW-4803DZ	18-72	±3.3	±400	1500	±470	76
AM3TW-4805DZ	18-72	±5	±300	1500	±470	81
AM3TW-4807DZ	18-72	±7.2	±208	1500	±100	78
AM3TW-4809DZ	18-72	±9	±167	1500	±100	82
AM3TW-4812DZ	18-72	±12	±125	1500	±68	81
AM3TW-4815DZ	18-72	±15	±100	1500	±68	82
AM3TW-4818DZ	18-72	±18	±84	1500	±33	81
AM3TW-4824DZ	18-72	±24	±63	1500	±33	81
AM3TW-2403DH35Z	9-36	±3.3	±400	3500	±470	76
AM3TW-2405DH35Z	9-36	±5	±300	3500	±470	79
AM3TW-2407DH35Z	9-36	±7.2	±208	3500	±100	78
AM3TW-2409DH35Z	9-36	±9	±167	3500	±100	79
AM3TW-2412DH35Z	9-36	±12	±125	3500	±68	80
AM3TW-2415DH35Z	9-36	±15	±100	3500	±68	80
AM3TW-2418DH35Z	9-36	±18	±84	3500	±33	81
AM3TW-2424DH35Z	9-36	±24	±63	3500	±33	80
AM3TW-4803DH35Z	18-72	±3.3	±400	3500	±470	76
AM3TW-4805DH35Z	18-72	±5	±300	3500	±470	81
AM3TW-4807DH35Z	18-72	±7.2	±208	3500	±100	78
AM3TW-4809DH35Z	18-72	±9	±167	3500	±100	82
AM3TW-4812DH35Z	18-72	±12	±125	3500	±68	81
AM3TW-4815DH35Z	18-72	±15	±100	3500	±68	82
AM3TW-4818DH35Z	18-72	±18	±84	3500	±33	81
AM3TW-4824DH35Z	18-72	±24	±63	3500	±33	81

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 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	Rated	Units
Tested voltage	3 sec		1500 and 3500	VDC
Resistance		> 1000		MOhm
Capacitance		470		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±1		%
Voltage balance (Dual output)		±1		%
Short Circuit protection	Continuous			
Short circuit restart	Automatic			
Line voltage regulation (Single)	LL-HL	±0.5		%

Output Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Line voltage regulation (Dual)	LL-HL	±0.5		%
Load voltage regulation (Single)	Load: 10...100%	±0.5		%
Load voltage regulation (Single) 3.3V output model	Load: 10...100%	±1.5		%
Load voltage regulation (Dual)	Load: 10...100%	±0.5		%
Load voltage regulation (Dual) ±3.3V output model	Load: 10...100%	±1.5		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	0...20MHz	60		mV p-p
Rising time		10		ms

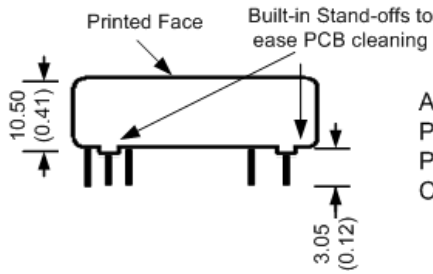
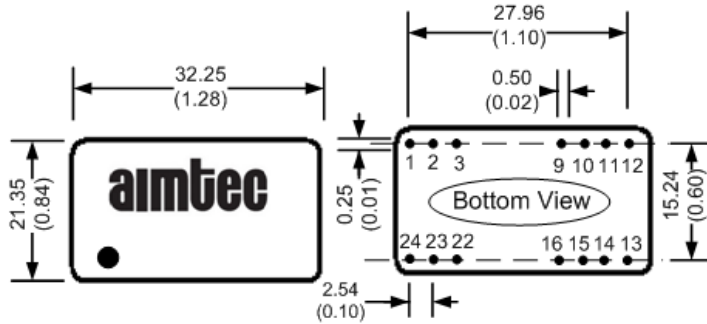
General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	250		KHz
Operating temperature	Full Load 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		21		g
Dimensions (L x W x H)	Tolerance ±0.5 mm or ±0.02 inches	1.28 x 0.84 x 0.41 inches	32.25 x 21.35 x 10.50 mm	
MTBF	>1 222 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)			

Pin Out Specifications

Pin	1500VDC		3500VDC	
	Single	Dual	Single	Dual
1	+V Input	+V Input	No pin	No pin
2	N.C.	-V Output	-V Input	-V Input
3	N.C.	Common	-V Input	-V Input
9	No pin	No pin	No Pin	Common
10	-V Output	Common	No pin	No pin
11	+V Output	+V Output	N.C.	-V Output
12/13	-V Input	-V Input	No pin	No pin
14	+V Output	+V Output	+V Output	+V Output
15	-V Output	Common	No pin	No pin
16	No pin	No pin	-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	No pin	No pin

Dimensions



All dimensions are typical: millimeters (inches)
 Pin Diameter: 0.50 ± 0.05 (0.02 ± 0.002)
 Pin Pitch Tolerance: ± 0.35 (± 0.014)
 Case Tolerance: ± 0.5 (± 0.02)

NOTE: **1.** Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. **2.** Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. **3.** Mechanical drawings and specifications are for reference only. **4.** All specifications are measured at an ambient temperature of 25°C, humidity < 75%, nominal input voltage and at rated output load unless otherwise specified. **5.** Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. **6.** This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other than the ones listed in this datasheet. **7.** Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [aimtec](#) manufacturer:

Other Similar products are found below :

[AM10CW-4812S-FZ](#) [AM10E-2415DZ](#) [AM10W-60009S-NZ](#) [AM15C-2412SZ](#) [AM15W-80015S-NZ](#) [AM1D-121212DZ](#) [AM1D-1215DH52Z](#)
[AM1D-4805S-RZ](#) [AM1D-4812D-RZ](#) [AM1DE-2405SZ](#) [AM1DE-2412SZ](#) [AM1DE-2415SH30Z](#) [AM1DS-0505DZ](#) [AM1DS-0505SH30-NZ](#)
[AM1DS-0512SH30Z](#) [AM1DS-0515SZ](#) [AM1DS-1205SH30-NZ](#) [AM1G-1212SZ](#) [AM1G-1215SH30Z](#) [AM1G-2424SZ](#) [AM1L-1215SH30-NZ](#)
[AM1LS-0503S-NZ](#) [AM1MR-2415SZ](#) [AM1P-0505DZ](#) [AM1P-0512DZ](#) [AM1P-0515DZ](#) [AM1P-0515SZ](#) [AM1P-0524DZ](#) [AM1P-1215DZ](#)
[AM1P-2405SZ](#) [AM1P-2412SH30Z](#) [AM1P-2424SZ](#) [AM1PS-0512SZ](#) [AM1S-0503SZ](#) [AM1S-1209SZ](#) [AM1S-2412SZ](#) [AM1SS-2415SH30Z](#)
[AM2D-1212SH52Z](#) [AM2F-0512SZ](#) [AM2G-0503SZ](#) [AM2G-1203SZ](#) [AM2G-1215SH30Z](#) [AM2GH-4815DZ](#) [AM2GH-4815SZ](#) [AM2L-](#)
[0505SH60-NZ](#) [AM2Q-0505SZ](#) [AM2Q-1212DZ](#) [AM2Q-1212SZ](#) [AM2Q-2415DZ](#) [AM2Q-4812DZ](#)