# **AM4T Series**



### 4 watt dc-dc converters

- 24PIN DIP PACKAGE
- WIDE 2:1 INPUT RANGE
- HIGH EFFICIENCY UP TO 81%
- LOW PROFILE METAL PACKAGE
- INPUT/OUTPUT ISOLATION: 1500 & 3500VDC
- CONTINUOUS SHORT CIRCUIT PROTECTION
- OPERATING TEMPERATURE: -40°C TO +85°C
- PIN-COMPATIBLE WITH MULTIPLE MANUFACTURERS

### GENERAL DESCRIPTION

Our AM4T series is a family of cost effective 4W single and dual outputs DC-DC converters. Input voltages of 12, 24 & 48VDC with output voltages of 3.3, 5, 7.2, 9, 12,

15, 18, 24, ±3.3, ±5, ±7.2, ±9, ±12, ±15, ±18 & ±24VDC. Full SMD-design and a 100% production test of parameters ensures a high reliability in this product.

## **ELECTRICAL SPECIFICATIONS**

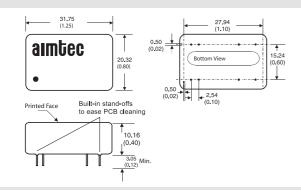
SR to P Specifications typical at +25°C, nominal input voltage, rated output current unless otherwise specified

Input Specifications:		<b>General Specifications:</b>	
Voltage range	12VDC, 9~18VDC	Efficiency	73% to 81%
	24VDC, 18~36VDC	Switching Frequency	250KHz, typ. 100% load
	48VDC, 36~72VDC		
Filter	p (Pi) Network	Output Specifications:	
		Voltage accuracy	±1%, max.
Isolation Specifications:		Voltage balance (Dual Output)	±1%
Rated voltage (60 sec)	1500 & 3500VDC	Ripple & noise (at 20MHz BW)	60mVp-p, max.
Resistance	> 1000MOhm	Short circuit protection	Continuous
Capacitance	120pF, typ.	Short circuit restart	Automatic
Cupucitunee	120p1, tjp.	Line voltage regulation	±0.5%, max.
		Load voltage regulation	±0.5%, max.
<b>Environmental Specifications</b>		Temperature coefficient	±0.02%/°C, typ.
Operating temperature (ambient)	-40°C +85°C	1 I	7 51
Storage temperature	-55°C +125°C	<b>Physical Specifications:</b>	
Case temperature	+100°C, max.	Dimensions	31.75x20.32x10.16mm
Derating	None required		1.25x0.8x0.4inches
Humidity (non-condensing)	Up to 90%	Weight	19g
Cooling	Free-air Convection	Case material	Nickel-Coated Copper

MTBF: > 1,036,000 hrs (MIL-HDBK-217F, Ground Benign, t=+25°C) Specifications are subject to change without notification

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### **OUTLINE DIMENSIONS & PIN CONNECTIONS**



Pin	1500 & 3500VDC			
	Single	Dual		
2	-V Input	-V Input		
3	-V Input -V Inpu			
9	N.C	Common		
11	N.C	-V Output		
14	+V Output	+V Output		
16	-V Output	Common		
22	+V Input	+V Input		
23	+V Input	+V Input		

### MODELS Single output

Models		Input Voltage 了	444	Owner Comment man
Isolation 1500VDC	Isolation 3500VDC	input voltage	Ouput Voltage	Ouput Current max.
AM4T-1203S	AM4T-1203SH35		3.3VDC	1000mA
AM4T-1205S	AM4T-1205SH35	9VDC - 18VDC	5VDC	800mA
AM4T-1207S	AM4T-1207SH35		7.2VDC	556mA
AM4T-1209S	AM4T-1209SH35		9VDC	444mA
AM4T-1212S	AM4T-1212SH35		12VDC	333mA
AM4T-1215S	AM4T-1215SH35		15VDC	267mA
AM4T-1218S	AM4T-1218SH35		18VDC	222mA
AM4T-1224S	AM4T-1224SH35		24VDC	167mA
AM4T-2403S	AM4T-2403SH35	18VDC - 36VDC	3.3VDC	1000mA
AM4T-2405S	AM4T-2405SH35		5VDC	800mA
AM4T-2407S	AM4T-2407SH35		7.2VDC	556mA
AM4T-2409S	AM4T-2409SH35		9VDC	444mA
AM4T-2412S	AM4T-2412SH35		12VDC	333mA
AM4T-2415S	AM4T-2415SH35		15VDC	267mA
AM4T-2418S	AM4T-2418SH35		18VDC	222mA
AM4T-2424S	AM4T-2424SH35		24VDC	167mA
AM4T-4803S	AM4T-4803SH35		3.3VDC	1000mA
AM4T-4805S	AM4T-4805SH35		5VDC	800mA
AM4T-4807S	AM4T-4807SH35	36VDC - 72VDC	7.2VDC	556mA
AM4T-4809S	AM4T-4809SH35		9VDC	444mA
AM4T-4812S	AM4T-4812SH35		12VDC	333mA
AM4T-4815S	AM4T-4815SH35		15VDC	267mA
AM4T-4818S	AM4T-4818SH35		18VDC	222mA
AM4T-4824S	AM4T-4824SH35		24VDC	167mA

# **AM4T Series**

#### MODELS Dual output

Models		Innut Valtage		
Isolation 1500VDC	Isolation 3500VDC	Input Voltage	Ouput Voltage	Ouput Current max.
AM4T-1203D	AM4T-1203DH35	9VDC - 18VDC	±3.3VDC	±500mA
AM4T-1205D	AM4T-1205DH35		±5VDC	±400mA
AM4T-1207D	AM4T-1207DH35		$\pm 7.2$ VDC	±278mA
AM4T-1209D	AM4T-1209DH35		±9VDC	±222mA
AM4T-1212D	AM4T-1212DH35		±12VDC	±167mA
AM4T-1215D	AM4T-1215DH35		±15VDC	±133mA
AM4T-1218D	AM4T-1218DH35		±18VDC	±111mA
AM4T-1224D	AM4T-1224DH35		$\pm 24$ VDC	±83mA
AM4T-2403D	AM4T-2403DH35	18VDC - 36VDC	±3.3VDC	±500mA
AM4T-2405D	AM4T-2405DH35		±5VDC	±400mA
AM4T-2407D	AM4T-2407DH35		±7.2VDC	±278mA
AM4T-2409D	AM4T-2409DH35		±9VDC	±222mA
AM4T-2412D	AM4T-2412DH35		±12VDC	±167mA
AM4T-2415D	AM4T-2415DH35	2 3	±15VDC	±133mA
AM4T-2418D	AM4T-2418DH35		±18VDC	±111mA
AM4T-2424D	AM4T-2424DH35		±24VDC	±83mA
AM4T-4803D	AM4T-4803DH35		±3.3VDC	±500mA
AM4T-4805D	AM4T-4805DH35		±5VDC	±400mA
AM4T-4807D	AM4T-4807DH35		±7.2VDC	±278mA
AM4T-4809D	AM4T-4809DH35	36VDC - 72VDC	±9VDC	±222mA
AM4T-4812D	AM4T-4812DH35	11.20 12.30	±12VDC	±167mA
AM4T-4815D	AM4T-4815DH35		±15VDC	±133mA
AM4T-4818D	AM4T-4818DH35		±18VDC	±111mA
AM4T-4824D	AM4T-4824DH35		±24VDC	±83mA